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Bulletin

New York Public Library

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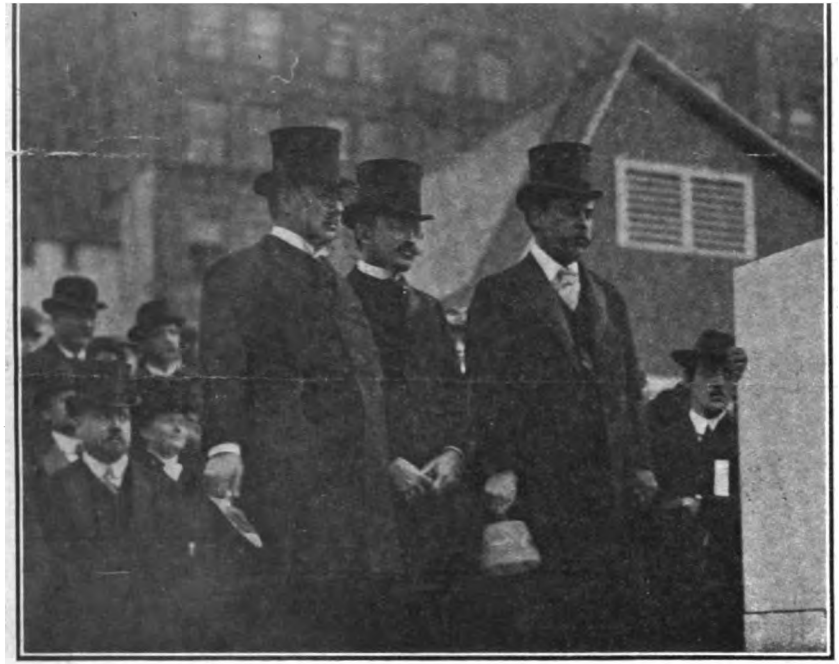
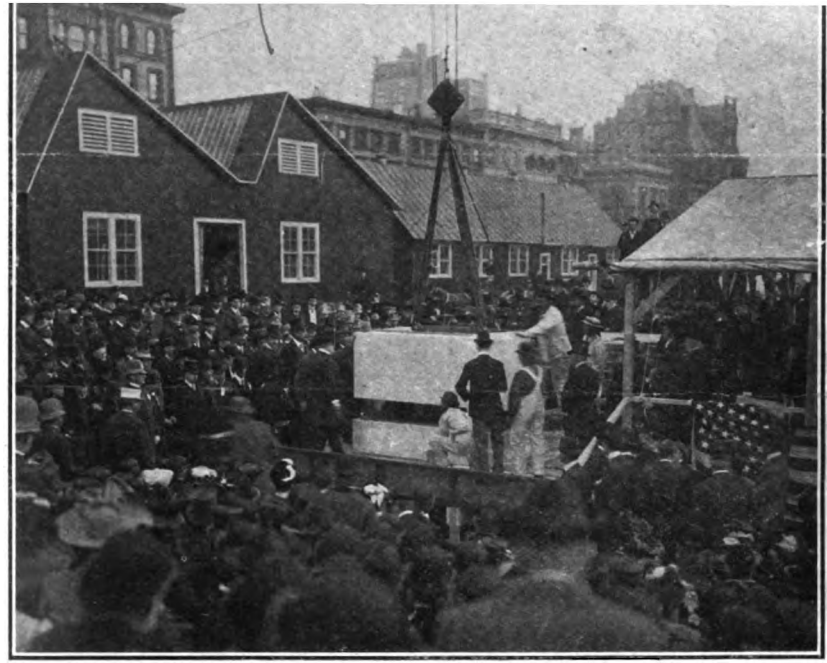


MAYOR LOW LAYING THE CORNER STONE.



LOWERING THE CORNER STONE INTO PLACE.

Laying the Cornerstone of the New York Public Library.

IN THE presence of a large assembly at Fifth avenue and Forty-second street on Monday afternoon Mayor Low laid the cornerstone of the New York Public Library, Astor, Lenox and Tilden foundations, at the site of the old reservoir, Bryant Park. The Rev. Dr. W. R. Huntington opened the ceremony with an invocation, and then John Bigelow, president of the board of trustees, delivered an address, sketching the history of the foundation of the New York Library and the merger that made it possible. Mr. Bigelow paid a tribute to Mayors Strong, Van Wyck and Low, none of whom, he said, had refused the library anything.

Mayor Low received a silver trowel from the architects, who stood by his side. A large bronze box was placed in the hollow made for it in the stone, and then the mayor declared the foundation stone laid. In the box the papers of the day, documents concerning the history of the library and a few coins were inclosed. The mayor said in part:

"I know of nothing in the history of private benefactors so unusual as the agreement of the boards of trustees of the Astor Library, the Lenox Library and the Tilden Trust to unite in the promotion of the New York Public Library upon the Astor, Lenox and Tilden foundations. So far as the New York Public Library is concerned the city's obligations and expenditures, apart from the erection of this building, are entirely in the interest of its circulating department. The Astor, Lenox and Tilden foundations both provide and support the reference library. It may safely be predicted, therefore, that, in the near future, the city of New York will enjoy the most adequate and effective system of free circulating libraries in the world."

At the conclusion of the mayor's address Archbishop Farley pronounced the benediction. Among those present were members of a delegation to the celebration of the Chamber of Commerce, including Sir Albert K. Rollit, M. P.; Lieut.-Gen. T. W. Laurie, M. P.; Arthur Serena, T. Y. Henderson, John Henne and Sir Vincent H. B. Kennell-Barrington.

BULLETIN

OF THE

NEW YORK PUBLIC LIBRARY

ASTOR LENOX AND TILDEN FOUNDATIONS

VOLUME VI
JANUARY TO DECEMBER
1902

NEW YORK
1902

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ASTOR LENOX AND TILDEN FOUNDATIONS

VOLUME VI · NUMBER 1
JANUARY 1902

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BRANCHES—CIRCULATION

Bond Street, 49 Bond Street.
Ottendorfer, 135 Second Avenue.
George Bruce, 226 West 42d Street.
Jackson Square, 251 West 13th Street.
Harlem, 218 East 125th Street.
Muhlenberg, 130 West 23d Street.
Bloomingdale (and Travelling Libraries), 206 West 100th Street.
Riverside, 230 Amsterdam Avenue (near 70th Street).
Yorkville, 1523 Second Avenue.
Thirty-fourth Street, 215 E. 34th St.
Chatham Square, 22 East Broadway.
St. Agnes, 2279 Broadway.
Washington Heights, 922–924 St. Nicholas Avenue, corner of 156th St.

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BULLETIN

OF THE

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ASTOR LENOX AND TILDEN FOUNDATIONS

VOL. VI. FEBRUARY, 1902. No. 2.

REPORT FOR JANUARY.

REFERENCE DEPARTMENT.

During the month of January there were received at the Library, by purchase, 1,298 volumes and 367 pamphlets; by gift, 1,450 volumes and 3,039 pamphlets; and by exchange, 245 volumes and 6,952 pamphlets.

There were catalogued 4,386 volumes and 2,987 pamphlets, for which purpose 7,228 cards and 1,036 slips for the printer were written, while 3,235 slips were written and given to the machine copyist, and 13,840 cards were received from the machine copyist.

The following table shows the number of readers, and the number of volumes consulted, in both the Astor and Lenox Branches of the Library, also the number of visitors to the Print Exhibit at the Lenox, during the month:

	LENOX.	ASTOR.
No. of readers and visitors	5,202	10,510
No. of readers	2,927	10,510
No. of readers, desk applicants	1,247	9,943
No. of volumes consulted by desk applicants	6,102	31,923
Daily average	112	404
Number of visitors to Print Exhibit, etc.	3,317	

CIRCULATION DEPARTMENT.

The most popular books of the month were (in non-fiction): Thompson-Seton's "Lives of the Hunted," Riis's "The Making of an American," and Pratt's "Lincoln in Story": (adult fiction) Bacheller's "D'ri and I," Parker's "The Right of Way," and Churchill's "Crisis"; (juvenile fiction) Lang's "Violet Fairy Book," Munroe's "A Son of Satsuma," and Barbour's "Captain of the Crew."

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CIRCULATION STATISTICS.

BRANCHES.	CIRCULATION.		NEW REGISTRATIONS.	READERS IN READING ROOM.		VOLUMES ACCESSIONED.
	HOME USE.	TOTAL.		MINORS.	TOTAL.	
Bond Street	12,195	12,777	215	1,395	4,845	53
Ottendorfer	20,667	21,892	343	2,434	5,039	180
George Bruce	14,612	17,375	250	1,923	2,763	96
Jackson Square	13,257	14,575	188	841	3,380	104
Harlem	13,047	14,418	256	1,509	2,506	15
Muhlenberg	10,535	12,509	193	952	1,974	70
Bloomingdale	17,773	19,647	274	2,357	3,810	113
Riverside	6,063	7,509	112	1,908	3,370	82
Yorkville	18,818	19,628	291	455	810	125
Thirty-fourth Street	5,892	8,361	106	1,721	2,469	28
Chatham Square	18,267	19,170	336	739	903	300
St. Agnes	13,788	15,858	201	1,238	3,280	148
Washington Heights	10,140	20,438	306	3,611	5,761	82
Travelling	22,047	22,047	0	0	0	250
	197,101	226,204	3,071	21,083	40,910	1,646

The more important gifts of the month were: From S. P. Avery, 53 volumes, 2 pamphlets and 228 prints, of which gift 33 volumes comprised a collection of over 1,600 etchings by Daniel Nicholas Chodowiecki, dating from the latter half of the 18th Century, including his illustrations for many books published during that period; in addition to their interest as engravings they are of great value as records of middle-class life and manners of the time. Also, from the Mayor of Bordeaux, 12 volumes of the reports presented to the Municipal Council of Bordeaux, 1889 to 1898, Procès-verbaux, 1900, Budget, 1901; from R. R. Bowker, a miscellaneous collection of fiction, theology, etc., amounting to 193 volumes and 135 pamphlets; from Paul Dana, 6 volumes and 302 pamphlets; from Dr. Robert L. Dickinson, the inkstand and scissors used by William Cullen Bryant when editor of the Evening Post; from the Evening Post, 204 volumes and 361 pamphlets; from George Fischer, a collection of German historical fiction, amounting to 278 volumes; from B. D. Grinchenko, of Chernigov, Russia, "Literatura Ukrainskavo Folklora, 1777–1900"; from the Imperial Russian Geographical Society, 4 volumes of Russian folk songs; from the Japanese Government, 19 volumes of Formosan Government reports; from the Commissioner of the Province of North Brabant, Netherlands, 165 volumes and 8 pamphlets, all documents of the Province: from R. Hudson Riley, 25 volumes and 22 pamphlets, being journals of the Folk-lore Society, etc.; from E. Schernikow, Consul of the Republic of Salvador, a collection of Salvador documents, amounting to 36 volumes, 51 pamphlets, and 9 plans; from Mrs. E. M. Townsend, the first volume of "Chapter Sketches, Connecticut Daughters of the Revolution"; and from the City of Trieste, Austria, 5 volumes and 6 pamphlets, being documents of the City and Province of Trieste.

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From the Jersey City Public Library was received, by exchange, an important file of documents relating to the water supply of New York City, covering the years 1840–48, and for those years completing the series of New York water reports; there were included also a few odd pieces for earlier years and many for Brooklyn in the 50's, which, together with those in the Ford Collection, make the literature in the Library relating to the water supply of New York and Brooklyn a large and valuable one.

At the Lenox Building there was opened on January 2d a collection of about 335 volumes illustrative of the literature of music, together with a selection of autograph letters of the great composers, music caricatures, etc. The exhibition of lithographs by Fantin-Latour and of etchings by Egusquiza has been continued; at the Astor Branch were exhibited plates from "Treasures and Masterpieces of Art at the Paris Exposition (1900)," presented by Mrs. Henry Draper, and five Chinese wood engravings (colored by hand) representing the defeat of the foreigners by the Boxers, presented by Dr. J. O. Skinner.

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CHECK LIST OF WORKS IN THE NEW YORK PUBLIC LIBRARY RELATING TO THE FINANCIAL AND COMMERCIAL HISTORY OF BROOKLYN.

*** The letters A and L following the entries indicate the location referring to the Astor and Lenox buildings respectively.

SERIAL PUBLICATIONS.

Brooklyn.—*Assessment Department.*

Annual report . . . for the year ending Nov. 30, 1896. *n. t. p.* [*Brooklyn*, 1896.] 76 pp. pap. 8°. A

—— *Board of Estimate.*

[Annual Statement.]

1858.

Report of the joint committee of the joint board of aldermen and supervisors, to whom was referred the annual statement of the mayor of the several sums of money which he deemed necessary to be raised by tax for the various purposes contemplated by the charter for the year 1858. *Brooklyn: L. Darbee & Son*, 1857. 26 pp. 8°. A

Annual statement of His Honor, the Mayor [Powell], to the joint board of aldermen and supervisors, June 7, 1858. *Brooklyn: L. Darbee & Son, prtrs.*, 1858. 16 pp. pap. 8°. A

1859.

Report of the joint committee . . . with statement of the amount to be levied in the tax of 1859. *Brooklyn*, 1858. 22 pp. pap. 8°. A

Annual statement of His Honor, the mayor [Powell] to the joint board of aldermen and supervisors June 6, 1859. *Brooklyn: L. Darbee & Son, prtrs.*, 1859. 16 pp. pap. 8°. A

1860.

Lacking.

1861.

Report of the joint committee, etc., with statements of the amount to be levied in the tax of 1861. *Brooklyn*, 1860. 30 pp. pap. 8°. A

Annual statement of the mayor [Martin Kalbfleisch] . . . June 3, 1861. *Brooklyn: L. Darbee & Son*, 1861. 24 pp. pap. 8°. A

1862.

Annual statement, etc. June 2, 1862. *Brooklyn: L. Darbee & Son, prtrs.*, 1862. 17 pp. pap. 8°. A

1863.

Report of the committee of the joint board of aldermen and supervisors, to whom was referred the annual statement of the mayor [of the money necessary to be raised by tax to carry on the city government for 1864]. [*Brooklyn: L. Darbee & Son*, 1863.] 31 pp. pap. 8°. A

Annual statement, etc. June 1, 1863. *Brooklyn: L. Darbee & Son, prtrs.*, 1863. 30 pp. pap. 8°. A

1864.

Minutes of the joint board of aldermen and supervisors, 1863, on the amount of money to be raised by tax for 1864. *n. p.*, n. d. 31 pp. pap. 8°. A

1865.

Lacking.

1866.

Lacking.

1867.

Lacking.

1868.

Jährlicher Bericht von Martin Kalbfleisch, Mayor, . . . an den gemeinschaftlichen Körper des Stadtraths u. der Supervisoren, am 1. Juni 1868. *Brooklyn, E.D.: Druck der Brooklyn Daily Times*, 1868. 19 pp. pap. 8°. A

1869.

Lacking.

1870.

Lacking.

1871.

Lacking.

1872.

Title changes to:

Report of the board of estimate to the joint board of aldermen and supervisors, estimating monies to be raised for county and municipal purposes for the year 1872. *Brooklyn: Daily Union Print*, 1871. 46 pp. pap. 8°. A

1873.

Report, etc., estimating moneys to be raised . . . for the year 1873. *Brooklyn: Eagle Print*, 1872. 18 pp. pap. 8°. A

1874.

Report, etc., estimating moneys to be raised . . . for the year 1874. *Brooklyn*, 1873. 15 pp. pap. 8°. A

1875.

Lacking.

1876.

Lacking.

1877.

Lacking.

1878.

Annual statement of the board of estimate to the board of aldermen estimating moneys to be raised by tax for the year 1878. *Brooklyn: For the Corporation*, 1877. 21 pp. pap. 8°. A

—— Same. *n. t. p.* 591–607 pp. 8°. A

In: Common Council Docs., 1877. no. 29.

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—— *Board of Estimate, Cont'd.*

1879.

Annual statement, etc., estimating moneys to be raised by tax for the year 1879. *n. p.*, n. d. [847–] 861 pp. 8°. A

In: Common Council Docs., 1878. no. 29.

1880.

Annual statement, etc., estimating moneys to be raised by tax for the year 1880. *n. t. p.* [540–] 566 pp. 8°. A

In: Common Council Docs., 1879. no. 27.

1881.

Annual statement, etc., estimating moneys to be raised by tax for the year 1881. *n. p.*, n. d. [967–] 993 pp. pap. 8°. A

Idem, 1880. no. 30.

—— Same. Separate. *n. p.*, n. d. 27 pp. pap. 8°. A

1882.

Annual statement, etc., estimating moneys to be raised by tax for the year 1882. *n. p.*, n. d. 20 pp. pap. 8°. A

—— Another edition. *n. p.*, n. d. 19 pp. pap. 8°. A

1883.

Annual statement, etc., estimating moneys to be raised by tax for the year 1883. *n. p.*, n. d. [759–] 778 pp. 8°. A

In: Common Council Docs., 1882. no. 33.

—— *Comptroller.*

[Annual reports.]

1851/2.

Financial report of the comptroller [C. C. Betts] to the common council for the year ending on the 31st of August, 1852. *Brooklyn: Wm. Foulkes, prtr.*, 1852. 16 pp. pap. 8°. A

1852/3.

Lacking.

1853/4.

Financial report of the comptroller [E. Estabrook] for the year ending 1st August, 1854. *Brooklyn: I. Van Anden's Steam Presses*, 1854. 86 pp. pap. 8°. A

1854/5.

Report of the comptroller [Wm. B. Lewis] of the receipts and expenditures of the corporation . . . for the [fiscal] year ending Sept. 1, 1855, together with the receipts and investments of the commissioners of the sinking fund for the same period. *Brooklyn, E. D.: Bishop & Kelly's . . . Presses*, 1855. 111 pp. pap. 8°. A

1855/6.

Annual report, etc. [for the fiscal year ending Aug. 31]. *Brooklyn, E. D.: Bishop & Kelly's . . . Presses*, 1856. 110 (2) pp. pap. 8°. A

1856/7.

Lacking.

1858.

Report of the comptroller . . . for the fiscal year ending Dec. 31. *Brooklyn: L. Darbee & Son, prtrs.*, 1859. 84 (1) pp. pap. 8°. A

1859.

Report of the comptroller [Chas. H. Collins] . . . for the fiscal year ending Dec. 31. *Brooklyn: L. Darbee & Son, prtrs.*, 1860. 71 (1) pp. pap. 8°. A

1,000 copies printed in pamphlet form.

1860.

Lacking.

1861.

Lacking.

1862.

Report of the comptroller [Thomas H. Faron] for the fiscal year ending Dec. 31. *Brooklyn: L. Darbee & Son, prtrs.*, 1863. 94 pp. pap. 8°. A

250 copies printed in pamphlet form.

1863.

Annual report of the comptroller, etc., for the fiscal year ending Dec. 31. *n. t. p.* 74 pp. 8°. A

In: Proc., 1864, v. 2. 250 copies printed in pamphlet form.

1864.

Report of the Comptroller, etc. *Brooklyn: L. Darbee & Son, prtrs.*, 1865. 85 pp. pap. 8°. A

250 copies printed in pamphlet form.

1865.

Report of the comptroller, etc. *Brooklyn: L. Darbee & Son, prtrs.*, 1866. 67 pp. pap. 8°. A

500 copies printed in pamphlet form.

1866.

Report, etc. *n. t. p.* 48 pp. 8°. A

In: Proc. Common Council, 1866. v. 4.

1867.

Lacking.

1868.

Lacking.

1869.

Annual report of the comptroller [Evan M. Johnson] for the fiscal year ending Dec. 31. *n. t. p.* 58 pp. 8°. A

In: Proc. Common Council, 1870, v. 2.

250 copies of this report were ordered printed in pamphlet form.

1870.

Annual report, etc. *n. t. p.* 66 pp. 8°. A

In: Proc. Common Council, 1871, v. 2.

1871.

Annual report of the comptroller [F. A. Schroeder] for the fiscal year ending Dec. 31, 1871. *n. p.*, n. d. [71–]172 pp. 8°. A

In: Proc. Common Council, 1872, v. 2.

1872.

Lacking.

1873.

Report of the comptroller, etc. *New York: The Aldine Co.*, 1874. 142 pp. cl. 8°. A

1874.

Report of the comptroller [S. S. Powell] for the fiscal year ending Dec. 31. *n. p.*, n. d. 126 pp. 8°. A

In: Proc. Common Council, 1875, v. 2.

1875.

Lacking.

1876.

Report of the comptroller [William Burrell] for the fiscal year ending Dec. 31. *n. p.*, n. d. [755–] 878 pp. 8°. A

In: Common Council Docs., 1877, no. 34.

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—— *Comptroller, Cont'd.*

1877.

Report, etc. *Brooklyn: Printed for the Corporation*, 1878. [909–]1042 pp. 8°. A
In: Common Council Docs., 1878, no. 35.

1878.

Report of the comptroller [William G. Steinmetz] for the fiscal year ending Dec. 31. *n. p.*, n. d. [599–]722 pp. 8°. A
In: Common Council Docs., 1879, no. 30.

1879.

Report of the comptroller, etc., together with the receipts and expenditures of the commissioners of the sinking fund for the same period. *Brooklyn: Printed for the Corporation*, 1880. [1103–]1138 pp. foldg. tbls. cl. 8°. A
With this report is bound: Special report of the comptroller . . . on arrearages for assessments for general and special improvements. Statement of the Bureau of Docks with comparative tables. *Brooklyn: By authority of the Common Council*, 1880. [703–]905 pp.

1880.

Report of the comptroller [Ludwig Semler], etc. *Brooklyn: For the Corporation*, 1881. 155 pp. fold. pls. cl. 8°. A

1881.

Report of the comptroller, etc. *Brooklyn*, 1882. [819–822], i–xii, 823–1047, iii pp. pap. 8°. A

1882.

Report of the comptroller [A. Brinkerhoff], etc. *Brooklyn*, 1883. 127, ii pp. cl. 8°. A

1883.

Report of the comptroller, etc. *Brooklyn*, 1884. 118, xx, ii pp. foldg. tbls. pls. cl. 8°. A

1884.

Report of the comptroller, etc. *Brooklyn*, 1885. 92 pp. foldg. tbl., pl. lea. 8°. A

1885.

Report of the comptroller, etc. *Brooklyn*, 1886. 148 pp. foldg. tbls., pl. cl. 8°. A

1886.

Report of the comptroller [Walter L. Livingston]. *Brooklyn*, 1887. 144 pp. fold. tbls. cl. 8°. A

1887.

Report of the comptroller, etc. *Brooklyn*, 1888. 160 (1) pp. foldg. tbls. pap. 8°. A

1888.

Report of the comptroller [A. Brinkerhoff], etc. *Brooklyn*, 1889. 151 (1) pp. foldg. tbls. cl. 8°. A

1889.

Report of the comptroller [Theo. F. Jackson], etc. *Brooklyn*, 1890. 148, ii pp. foldg. tbls. cl. 8°. A

1890.

Lacking.

1891.

Lacking.

1892.

Lacking.

1893.

Report of the comptroller [Halsey Corwin], etc. *Brooklyn*, 1894. 239 pp. foldg. tbls. bds. 8°. A

—— *Sinking Fund Commission.*

[Semi-annual report.]

1876.

Report of the commissioners on the condition of the sinking fund, Dec. 30, 1876. *n. t. p.* 129–142 pp. 8°. A
In: Common Council Docs., 1877. no. 12.

1877.

—— June, 1887. *n. t. p.* 625–634 pp. 8°. A
Ibid., no. 32.

—— Dec., 1877. *n. t. p.* [103–]106 pp. 8°. A
Idem, 1878. no. 13.

1878.

—— June, 1878. *n. p.*, n. d. [891–]901 pp. 8°. A
Ibid. no. 33.

—— Dec., 1878. *n. t. p.* [199–]203 pp. 8°. A
Idem, 1879. no. 16.

—— —— Same. Separate. A

1879.

Lacking.

1880.

Lacking.

1881.

—— June, 1881. *n. p.*, n. d. [761–]769 pp. 8°. A

—— Dec., 1881. *n. t. p.* [301–]306 pp. 8°. A
In: Common Council Docs., 1882. no. 17.

1882.

—— June, 1882. *n. p.*, n. d. [751–]756 pp. 8°. A
Ibid. no. 32.

—— *Tax Department.* Sale of property for unpaid taxes. Sale register, [16–]33. Taxes due 1856–73. Property sold, 1858–80. *Brooklyn*, 1858–80. F°. A

—— —— Sale of property for unpaid assessments. Assessment sale, [4, 6–10,] 12–17. 1859, 1861–65, 1867–75. *Brooklyn*, 1859–73. F°. A

—— Same. Liber K—M. Assessment sale, Sept., Dec., 1874, July, 1876. *Brooklyn*, 1874–76. F°. A

—— —— List of the parcels of property to be included in a sale [for unpaid taxes], Feb., Apr., Je., Oct., 1885; Feb., Apr. 14, 21, Je., 1886; July, 1887; Je., Oct., 1888; Aug., 1889; Je., Oct., 1890; Sept., 1891; Oct., 1892. [*Brooklyn*, 1885–92.] F°. A

—— *Nassau Water Department.* Sale of property . . . for the unpaid . . . water rents. no. 1, 3, 5–10; due 1859/63, 1864, 1866–71; sold Jan. and Nov., 1868, 1870–72. *Brooklyn*, 1867–72. F°. A

NON-SERIAL PUBLICATIONS.

Brooklyn.—*Finance Committee.* Report of the special Committee of the Common Council of . . . Brooklyn: on the subject of the finances, indebtedness, &c., of the city, presented . . . March 31st, 1838. *Brooklyn: Arnold & Van Anden, prtrs.*, 1838. 1 p. l., 54 pp. pap. 12°. A

—— *Finance Committee.* Annual financial report . . . March 1, 1846. [*Brooklyn*, 1846.] Broadside. A

—— *Public Improvements and Assessments, Committee on.* Report of the committee . . . on the collection of taxes and assessments, upon so much of

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the subject submitted to them as relates to public improvements and assessments . . . November 11, 1847. *Brooklyn: Lees & Foulkes, prtrs.*, 1847. 16 pp. pap. 8°. A

—— *Comptroller.* Report . . . showing a full statement of the several trust accounts, also of all the receipts and expenditures of the City . . . for the years 1841–'50, by Peter Bergen, comptroller, September 1, 1850. *Brooklyn: I. Van Anden*, 1850. 77 pp. pap. 8°. A

—— *Tax Department.* Reports of the collector of taxes and assessments [Isaac Badeau], exhibiting the receipts of taxes and assessments, and other statistical information. *Brooklyn, E. D.: Daily Times Print*, 1867. 32 pp. 8°. A

New Utrecht.—*Supervisor.* List of lands to be sold for unpaid assessments in the northerly drainage district of the town of New Utrecht, Kings County, November 26, 1872. *New York: Rogers & Sherwood*, n. d. 15 pp. 4°. A

Brooklyn.—*Collection Department.* Report of the collector of taxes and assessments; being a statement of receipts from July 26, 1875, to March 31, 1877, with detailed statements showing the distribution of the same, and of unpaid taxes and assessments transmitted to the registrar of arrears for collection. *n. t. p.* pp. 367–432. 8°. A

Docs. addressed to Common Council, 1877. no. 23.

—— *Common Council.* Report of the special committee of the board of aldermen estimating amounts to be raised for municipal purposes for the year 1878. *n. p.*, n. d. pp. [1055–]1073. 8°. A

Docs. to Com. Council, 1878. no. 38.

—— Same. Separate. *Brooklyn: The Corporation*, 1877. 27 pp. pap. 8°. A

—— —— Report of the special committee of the board of aldermen, estimating amounts to be raised for municipal purposes for the year 1878. *n. p.*, n. d. pp. 899–923. 8°. A

Docs. addressed to Common Council, 1877. no. 41.

—— —— Tax budget for the year 1880. Proceedings of the Common Council estimating the amount of money to be raised for purpose of maintaining city departments. Adopted Nov. 11, 1879. *Brooklyn: Prtd. for the Corporation*, 1879. pp. [740–]763. 8°. A

Documents, 1879. no. 34.

—— —— Same. Separate. 23 pp. pap. 8°. A

—— *Comptroller.* Special report of the comptroller to the mayor and common council, on arrearages for assessments for general and special improvements. *Brooklyn: By authority of the common council*, 1880. pp. [733–]905. diagr., tbls. 8°. A

In: Brooklyn. Common Council Docs., 1880. no. 26.

—— *Mayor.* The city's finances. The debt, the sinking fund and taxation. A message of the Hon. A. C. Chapin, mayor, Feb., 1890. [*Brooklyn*, 1890.] 16 pp. 8°. A

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CHECK LIST OF WORKS IN THE NEW YORK PUBLIC LIBRARY RELATING TO THE CHURCHES OF BROOKLYN.

*** The letters A and L following the titles indicate the location, referring to the Astor and Lenox buildings respectively.

GENERAL—HISTORICAL.

Historical sketches of the churches of the City of Brooklyn, No. I. [Compiled by] H. A. Lees. *Brooklyn: Lees & Foulkes* [1850]. 8°. L

Evangelical churches in the City of Brooklyn. Letter to the convention of ministers and representatives of the evangelical branches. *New York*, 1866. 8°. A

Brooklyn Daily Eagle. Brooklyn church semi-centennials. Plymouth church annals. First Presbyterian Church, Williamsburg, and Dr. Wells. New Lots Reformed Church. [*Brooklyn*,] 1900. 1 p. l., 40 pp. 4°. L
(Brooklyn Eagle library, no. 39.)

BAPTIST.

Brooklyn Baptist Church Extension Society. Annual reports. no. 12–13 (1898/9–99/1900). *Brooklyn*, 1899–1900. 8°. A

—— Ten years' survey, 1892. [*Brooklyn*, 1892.] 24°. A

Emmanuel Baptist Church. Year book, 1888–89. *New York*, 1889. 16°. A

First Baptist Church in Pierrepont St. Articles of faith, covenant and rules of order. *New York*, 1870. ii, 22 pp. 24°. A

—— Church manual. *New York*, 1874. 52 pp. 24°. A

—— Church manual, articles of faith, covenant, rules of order, officers, etc.; together with a complete list of the members. *New York*, 1874. 52 pp. 24°. A

CATHOLIC.

Church of the Nativity. Financial statement, together with historical sketch . . . from Oct. 1st, 1871, to Dec. 31st, 1882. *New York*, 1883. 53 pp. 8°. A

CONGREGATIONAL.

Congregational Association of New York and Brooklyn. [Constitution.] [*New York*, 1861?] 2 l. 8°. A

Congregational Churches (U.S.) The Brooklyn council of 1874. Letter-missive, statement and documents, together with an official phonographic report of the proceedings and the result of the council. *New York*, 1874. 8°. A

Church of the Pilgrims. Manual: 1849, '55, '59, '64/65, '69, '76, '88. *New York*, 1849–'88. nar. 12°, 12°, 8°. A

—— The confession of faith, covenant, ecclesiastical principles and rules, forms of admission, etc., and list of the members to 1859. *New York*, 1859. 42 pp. 12°. A

—— Catalogue of members and list of officers, 1861. *New York*, 1861. nar. 12°. A

—— The order of public worship, confession of faith, covenant, forms of admission, etc., ecclesiastical principles and rules; with list of members, 1869, 1876. [*New York*, 1869–'76.] 8°. A

—— The obligation of man to obey the civil law: its ground and extent. A discourse . . . by R. S. Storrs. *New York*, 1850. 8°. A

—— An address on congregationalism, as affected by the declarations of the Advisory council of Feb., 1876. By R. S. Storrs . . . With minutes of the proceedings of the church in relation thereto. *New York*, 1876. 29 pp. 8°. A

—— The Church of the Pilgrims, Brooklyn, New York: its character and work, with the changes around it, during forty years of pastoral service. A discourse, delivered November 14, 1886. By Richard S. Storrs. *New York: A. S. Barnes & Co.* [1886.] 68 pp. 4°. L

—— *Sunday School.* Catalogue of books belonging to the Sunday school. *New York*, 1873. 10 pp sq. 16°. A

—— —— *New York*, 1876. 11 pp. 12°. A

—— *Pilgrim Chapel.* Annual report of the Pilgrims chapel. no. 1–2 (1876–1877). *Brooklyn*, 1877–'78. 12°. A
Report for 1877 in Memorial of the officers and teachers . . .

—— Annual report presented at the annual meeting of the Church of the Pilgrims. no. 1 (1877). *Brooklyn*, 1877. 12°. A

—— Memorial of the officers and teachers of the Pilgrim chapel, and second annual report . . . [*Brooklyn*, 1878.] 10 pp. 12°. A

Clinton Ave. Congregational Church. Manual, no. 2, 6, 9 (1857, '75, '84). *Brooklyn*, 1857[–1884]. 8° and 12°. A

—— The Parish record of the Clinton Ave. Congregational Church of Brooklyn. v. 1, no. 1 (Nov., 1885). [*Brooklyn*, 1885.] 8°. A

Plymouth Church. Manual. ed. 1–5 (1848, '50, '54, '67, '74). *New York*, 1848–'74. 8° and 12° and 16°. A

—— God's seal and testimony. A sermon: preached . . . by H. W. Beecher. with a list of members received at the communions of May, June and July, 1858. *Brooklyn*, 1858. 28 pp. 12°. A

—— An account of the services of the silver-wedding week in Plymouth church (Rev. Henry Ward Beecher's). *New York*, 1873. 95 pp. 8°. LA

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—— Reply of Plymouth church to the council of congregational churches sitting in Brooklyn, March 25th, 1874. [*New York*, 1874.] 15 pp. 8°. A

—— Plymouth church and its pastor, or Henry Ward Beecher and his accusers. By J. E. P. Doyle. *Hartford, Conn.: Park Pub. Co.*, 1874. 1 p. l., v-ix, 13-566 pp., 3 pl., 8 port. 8°. L

—— Letter-missive. [*Brooklyn*, 1876.] 30 pp. 8°. A

—— Authors' festival, in aid of the Bethel, Feb. 23 and 24, 1881. [*Brooklyn*, 1881.] 16°. A

—— Proceedings of a council . . . for the installation of . . . Lyman Abbott . . . as pastor, and the ordination and installation of . . . H. S. Bliss, as assistant pastor . . . with a sermon by Lyman Abbott, . . . on the new theology. *Brooklyn*, 1890. 67 pp., 3 port. 8°. A

—— *Sunday School Library.* Catalogue, 1867, '75, '86. *New York*, 1867-'86. 24°, sq. 24°. A

Puritan Church. Manual, 1875. *New York* [1875]. 8°. A

South Congregational Church. Manual . . . 1864, '68. *Brooklyn*, 1864-68. 16° and 8°. A

State Street Congregational Church. Manual. *Brooklyn*, 1861. 24 pp. 16°. A

Tompkins Avenue Congregational Church. Manual. *Brooklyn*, 1877. 32 pp. A

PRESBYTERIAN.

City Park Chapel (The). Annual report. 1873, '74, '81, '83, '86, '88. *New York*, 1873-88. 8°. A

First Presbyterian Church. Manual, 1863, '68, '75. *Brooklyn*, 1863-'75. 16° and sq. 16°. A

—— Roll [of members]. *New York*, 1866. 29 pp., 1 l. 24°. A

—— The valedictory of Paul to the Corinthians. A discourse delivered in the . . . church, Jan. 11, 1829. With a formula of a confession of faith and covenant, . . . and a catalogue of the communicants. *Brooklyn*, 1829. 27 pp. nar. 8°. A

—— *Sunday School.* Catalogue of the library, 1864, '69. *Brooklyn*, 1864-'69. 24°. A

First Presbyterian Church and City Park Chapel —*Sabbath-Schools.* Short lessons on the life of the apostle Paul. nos. 1-24 (Oct., 1871-'72). [*Brooklyn*, 1871-'72.] 24 l. 8°. A

With manuscript additions.

Lafayette Avenue Church. Manual, 1863, '70. *New York*, 1863-70. nar. 16° and 24°. A

—— Its history and commemorative services, 1860-1885. Rev. Theodore L. Cuyler, pastor, prepared by a committee of the church. *New York: R. Carter & Bro.* [cop. 1885.] 1 p. l., 308 pp., 1 port. 12°. L A

Park Presbyterian Church. Manual, 1860. *New York*, 1860. 24°. A

Contains a brief historical sketch.

Ross Street Presbyterian Church. Ross Street bazaar, pub. by the ladies of the church, v. 1. (Dec. 1881.) *Brooklyn*, 1871. 8°. A

Second Presbyterian Church. Manual, 1875. *Brooklyn*, 1875. 24°. A

South Presbyterian Church. Manual, Nov., 1851. *New York* [1851]. 27 pp. 24°. A

Westminster Presbyterian Church. Manual. *New York*, 1865. 8 pp. 2 l. 12°. A

METHODIST EPISCOPAL.

Sands Street Methodist Episcopal Church. Old Sands Street Methodist Episcopal Church of Brooklyn, N. Y.; an illustrated centennial record, historical and biographical; with an introduction by Rev. A. S. Hunt. By Edwin Warriner. *New York: Phillips & Hunt*, 1885. xxi, (1) 520 pp. 3 pl., 52 port. 8°. L

Wesley Methodist Episcopal Church. History of the Wesley M. E. Church of Brooklyn, L. I., with laws relating to the incorporation of religious societies in the state of New York, and statistical information showing the growth of Methodism . . . throughout the world. By Gilbert E. Currie. *New York: N. Tibbals & Son*, 1876. xxiv, 315 pp. 8°. L

PROTESTANT EPISCOPAL.

Church of the Atonement. Catalogue of library of the Sunday-school. *Brooklyn*, 1866. 24°. A

Church of the Holy Trinity. Pastoral letter. [*Brooklyn*, 1856?] 8°. A

—— Easter-day celebration of the Sunday Schools. (1855.) *New York*, 1855. 8°. A

—— A commemorative discourse delivered on the occasion of celebrating the completion of the tower and spire of the Church . . . Dec. 19, 1867. With illustrative historical notes by Rev. T. S. Drowne, D.D. *New York: Hurd & Houghton*, 1868. 78 pp. 8°. A L

—— *Library.* Alphabetical catalogue of the Sunday school and parish library. *Brooklyn*, 1861. 16 pp. sq. 24°. A

—— *Pastoral Aid Society.* Annual report. nos. 4-6 (1874-'76). *New York*, 1874-'76. 24°. A

Church of the Messiah. Popular education. [By] C. R. Baker. [*Brooklyn*,] 1875. 8°. A

—— Sermon on the tenth anniversary of . . . rectorate, Feb. 4, 1883; by C. R. Baker. *Brooklyn*, 1883. 4°. A

—— Sermon preached at the opening of the new chancel . . . by the rector, C. R. Baker . . . [*Brooklyn*,] 1893. 8°. A

Grace Church, Brooklyn Heights. Year book, 1871, '73, '75, '89-92, '94-96, '98-99. *Brooklyn*, 1871-99. 12° and 24°. A

Early numbers called Parish Year book. 1883 called Parish book.

—— Christmas festival, 1885, '89-90. [*Brooklyn*, 1885-90.] sq. 16°. A

—— Semi Centennial, 1847-1897. *Brooklyn* [1897]. 112 pp., 3 p. l. sq. 8°. A

Grace Church Chapel. Annual report. 1878/9, 1886, 1891. *Brooklyn*, 1876-91. 8°. A

Other reports in year book of Grace Church.

Grace Church, Williamsburgh. Report of the establishment of Grace Church, Williamsburgh, Brooklyn, by Rev. A. Guion. *New York*, 1859. 2 p. l., 31 pp. 16°. A

—— *Sunday-school.* Alphabetical catalogue of the Sunday-school and parish library. *Brooklyn*, 1861. 24°. A

Saint Ann's Church. Saint Ann's Church (Brooklyn, N. Y.) from the year 1784 to the year 1845, with a memorial of the Sunday schools. To which is added an appendix, containing a brief

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notice of the other Episcopal churches in Brooklyn. *Brooklyn: F. G. Fish*, 1845. v, (4) 10–220 pp., 1 pl. 8°. L

—— Inaugural sermons preached at the opening services, Oct., 1869. Published by the vestry. *New York*, 1869. 88 pp. 8°. A

—— The old and the new; or, The past and present of the parish of Saint Ann's, Brooklyn. [Compiled by H. M. Gardner, Jr.] *Brooklyn: E. F. de Selding*, 1869. 36 (1) pp., 4 pl. 12°. L

—— The Parish year-book. [*Brooklyn*,] 1887–91. 16°. A

Saint George's Church. Services commemorating the thirtieth anniversary, October 29 to November 3d, 1899. [*New York*, 1899.] 81 pp. sq. 4°. A

Saint Luke's Church. The parish hand-book for 1886. [*Brooklyn*,] 1886. 16°. A

Saint Mark's Church. "Our church's first century." A discourse delivered in Saint Mark's church, Brooklyn. By Spencer S. Roche. February 8, 1885. *Brooklyn: [the church,]* 1885. 19 pp. 8°. L

Saint Paul's Church. The portfolio, festival and fair, November 19th, 20th, and 21st, 1872. [*New York*, 1872.] 78 pp. sq. 8°. L A

Saint Thomas's Church. Statement and appeal of the trustees. *New York*, 1853. 8°. A

REFORMED.

Bushwick Church. Tombstone inscriptions in the burial ground of the old Bushwick church, (Brooklyn, N. Y.) Copied August, 1880, by G. Sparrow. (In: Kings County Genealogical Club Collections. v. 1. no. 4. pp. 45–52.) L

First Reformed Church. Our Sabbath school floral anniversary. Festival of the May queen . . . May 10, 1871. *New York*, 1871. 18 pp., 1 l. 12°. A

Bedford Avenue Reformed Church. A pastoral [by E. S. Porter]. *Brooklyn*, 1873. 8°. A

First Reformed Dutch Church. Memorial of the late Rev. J. Kimball, D.D. . . . [*Brooklyn*, 1875.] 34 pp. 12°. A

North Reformed Dutch Church. Valedictory sermon preached . . . April 30, 1865, by Rev. A. Elmendorf. *New York*, 1865. 25 pp. 8°. A

Reformed Dutch Church. Baptisms in the Reformed Dutch church of Brooklyn [from 1660 to end of 1719. Marriages from Oct., 1660, to June, 1696]. As translated by . . . T. G. Bergen. (In: Kings County Genealogical Club Collections. v. 1, nos. 4–6. pp. 55–96.) L

Repr. Brooklyn Corporation Manual of 1869.

—— First book of records of the Dutch Reformed Church of Brooklyn, N. Y. (In: Year book of the Holland Society of New York, 1897. pp. 133–194. 4°.) L

UNITARIAN.

Church of the Saviour. Loyalty to Christ. A discourse preached at the installation of A. P. Putnam . . . By E. S. Gannett. *New York*, 1864. 8°. A

—— Report of the superintendent of the Furman St. mission, 1867. *Brooklyn*, 1867. 8°. A

—— Unitarianism in Brooklyn. A sermon preached by A. P. Putnam . . . at the commemorative services . . . on the twenty-fifth anniversary of the consecration of the church . . . *Brooklyn*, 1869. 58 pp. 8°. A

—— Easter services . . . A sermon by A. P. Putnam . . . with an account of the Sunday school celebration . . . etc. *Brooklyn*, 1876. 57 pp. 8°. A

—— Human and divine sympathy: A sermon preached May 18, 1879, by J. M. Pullman. *New York*, 1879. 8°. A

Unitarian Society, Brooklyn, N. Y. (Second.) Twenty-fifth anniversary of the first meeting . . . *New York*, 1876. 64 pp. 8°. L A

UNIVERSALIST.

Church of Our Father. Souvenir. April, 1891. [*Brooklyn*, 1891.] 16 pp. nar. F°. A

MISCELLANEOUS.

Brooklyn Ethical Association. [Manual.] nos. 14–15 (1894/95–95/96.) [*New York*, 1894–95.] 16°. A

Brooklyn Liberal Christian Union. Report of the annual meeting. nos. 1–3 (1867–'69). *Brooklyn*, 1867–'69. 8°. A

No. 1 has title: Origin and 1st annual report.

Brooklyn Sunday-School Union. Three questions answered. What is it? What does it do? What does it propose? [*Brooklyn*, 1876.] 8 pp. 8°. A

—— The centennial celebration! 1776, 1876. Hymns and music for the 47. anniversary of the Brooklyn Sunday School Union, . . . May 24, 1876. *New York: The Union* [1876]. 8 pp. ob. 24°. L

Church of the Restoration. Address delivered at the dedication of the Church . . . Brooklyn, July 2nd, 1850, by F. A. Farley. *New York*, 1850. nar. 8°. A

Union for Christian Work. Annual report. nos. 4–29 (1870–95). *Brooklyn*, 1870–96. 8° and 12°. A

After 1895 the library and reading room only were continued, reports for which are found in the reports of the Free Lending library of the Union for Christian work.

United Brethren's (Moravian) Church. Principles and discipline of U. B. (M.) C. *New York: G. F. Bunce & Co.*, 1856. 12 pp. 16°. A

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Apprentices' Library Association of Brooklyn. *See* **Brooklyn** Institute.—Youth's Free Library.

Brooklyn Athenaeum and Reading Room. Annual report of the board of trustees. nos. 1–2, 4 (1854–55, '57). *Brooklyn*, 1855–'57. 8°. A

—— Articles of association, by-laws, rules and regulations. *Brooklyn*, 1853. 24 pp. nar. 12°. A

—— —— *Brooklyn*, 1857. 28 pp. 12°. A

—— A catalogue of the library with the rules of the library committee . . . *New York*, 1853. 64 pp. 8°. A

—— Catalogue of the annual exhibition of pictures. no. 1 (1856). *Brooklyn*, 1856. 8°. A

Brooklyn Institute.—*Youth's Free Library.* Catalogue of the Youth's free library, Brooklyn institute, . . . chartered Sept., 1824, by the name of the Apprentices' library association, of Brooklyn. *Brooklyn*, 1849. 114 pp. nar. 16°. A

—— —— Supplement. *Brooklyn*, 1851. 8 pp. nar. 16°. A

—— —— —— *Brooklyn*, 1852. 4 pp. nar. 16°. A

—— —— *Brooklyn*, 1857. 118 pp. 16°. A

—— —— Supplement. [*Brooklyn*, 1858.] 7 pp. 16°. A

—— —— —— [*Brooklyn*, 1859.] 7 pp. 16°. A

—— —— *Brooklyn*, 1867. 2 p.l., 88 pp. nar. 16°. A

—— —— *Brooklyn*, 1873. 116 pp. 16°. A

Brooklyn Library. Annual report. nos. 1–8, 12–18, 23–42 (1858–'65/6, '69/70–'75/6, '80/81–'99/1900). *Brooklyn*, 1859–1900. 8°. A

—— —— nos. 29–37, 41–42. L

Formerly known as "Mercantile Library Association of Brooklyn."

—— Bulletin of new books. nos. 1–7, 9–13, 15–39 (Nov., 1869–Feb., '74, Oct., '75–Dec., '79, Jan., '81–Dec., 1900). [*Brooklyn*, 1869–1900.] 8°. A

—— —— nos. 17, 22, 25–31, 33, 34, 36–39. L

—— Book-list. nos. 8, 22 (July, 1884, Sept., '85). *Brooklyn*, 1884–'85. 4°. A

—— Classed bulletin of books added to the . . . library. *See* Bulletin of new books.

—— Constitution of the Mercantile library association. *Brooklyn*, 1858. 1 p. l., 8 pp. 24°. A

—— Catalogue of the Mercantile library of the city of Brooklyn. *Brooklyn*, 1859. 2 p. l., 77 pp. 8°. A

—— Manual of the board of trustees. 1865. *Brooklyn*, 1865. nar. 12°. A

—— Alphabetical catalogue of works of fiction in English prose, February, 1869. [*Brooklyn?* 1869.] 36 pp. 4°. A

—— List of periodicals [and regulations]. [*Brooklyn*, 1869.] *n. t. p.* 2 l. 8°. A

—— English prose fiction, Nov., 1873. [*Brooklyn?* 1873.] nar. 4°. A

—— Supplementary class list. English prose fiction. Nov., 1873–Nov., '74. [*Brooklyn*, 1874.] 4°. A

For continuation see: "Book-list."

—— Analytical and classed catalogue . . . Authors, titles, subjects and classes. *Brooklyn*, 1881. F°. L

—— Music catalogue. nos. 1 and 2, Jan. 1, 1887. 4°. L

—— Music bulletin. no. 3, March 1, 1891. 4°. L

—— Catalogue of English prose fiction, including juveniles and translations. Complete and revised edition, July, 1894. *Brooklyn* [1894]. 2 p. l., 254 pp. 4°. A

Brooklyn Library Association of the Eastern District. Catalogue, 1866. *Brooklyn*, 1866. 272 pp. 8°. A

Brooklyn Library and Reading Rooms. *See* **Brooklyn** Library.

Brooklyn Mercantile Library. *See* **Brooklyn** Library.

Brooklyn Public Library. Annual report of the board of directors. nos. 1–2 (1898–'99). *Brooklyn*, 1899–1900. 8°. A

—— Testimonial to the Brooklyn Public Library Association. Issued in connection with the benefit given under the auspices of a committee of citizens. *New York*, 1898. 36 pp. sq. 8°. A

—— Complimentary dinner to the Hon. David A. Boody by the directors of the Brooklyn Public Library, Apr. 10, 1901. [*Brooklyn*, 1901.] 14 pp., 1 port. 8°. A

Church of the Holy Trinity. Alphabetical catalogue of the Sunday-school and parish library. *Brooklyn*, 1861. 24°. A

Church of the Pilgrims. Catalogue of books belonging to the Sunday-school. *New York*, 1873. 10 pp. sq. 16°. A

—— —— *New York*, 1876. 11 pp. 12°. A

Free Lending Library Union for Christian Work. *See* **Union** for Christian Work, Brooklyn. —Free Lending Library.

Hamilton Club.—*Library.* Catalogue. *Brooklyn*, 1885. 79 pp. 8°. A

Long Island Historical Society. Medical department of the library . . . An account of its

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formation, with a catalogue of the books. *Brooklyn*, 1870. 31 pp. 8°. A

Mercantile Library of Brooklyn. *See* **Brooklyn** Mercantile Library.

Plymouth Church. Catalogue of the Sunday-school library, 1867, 1875, 1886. *New York*, 1867–86. 24°. A

Pratt Institute Free Library. Report. no. 1[–4] (1896/7–'99/1900). *Brooklyn*, 1896[–1900]. 8°. A

The first printed annual report of the Library. For statistics of previous years, see Pratt Institute, Ann. catalogue.

—— Annual bulletin of additions. no. 1 (1894). *Brooklyn*, 1895. 8°. A L

—— Monthly bulletin. v. 1, no. 1–6 (1899–1900). *Brooklyn* [1899–1900]. 8°. A L

—— Bulletin. no. 10–16 (1893–'95). *Brooklyn* [1893–'95]. 8° and 4°.

no. 10. Finding list of works in the French language, Sept. 1893. A L
no. 11–12. Accessions. A
no. 13–14. Accessions. L
no. 15. Alphabetical subject list of government documents, July, 1894. A L
no. 16. Finding list of works in the Ger. lang., Jan., 1895. A L

—— Books for children under fourteen years of age. August, 1895. *Brooklyn*, 1895. 4°. L

—— Finding-list of fiction, except French and German. August, 1895. *Brooklyn*, 1895. 4°. L

—— Bulletin of new books received during December, 1895. [Typewritten.] F°. L

—— Information for borrowers, 1898. [*Brooklyn*, 1898.] 13 pp. 24°. A

School District No. 5.—*Library*. Classified catalogue. *Brooklyn*, 1848. 36 pp. nar. 12°. A

Union for Christian Work, Brooklyn.—*Free Lending Library*. Annual report, nos. 17, 22–23 (1883, '88–99.) *Brooklyn*, 1884–1900. 12°. A

—— New books. no. 95 (May, '98). *Brooklyn*, 1898. folded f°. A

Young Men's Christian Association.—*Library*. Catalogue of books. *Brooklyn*, 1862. vi, 7–103 pp. 8°. A

—— —— *Brooklyn*, 1872. 189 pp. 8°. A

Additions pasted on fly leaf.

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CHECK LIST OF WORKS IN THE NEW YORK PUBLIC LIBRARY RELATING TO THE SCHOOLS OF BROOKLYN.

*** The letters A and L following the entries indicate the location, referring to the Astor and Lenox buildings respectively.

[CITY DOCUMENTS.]

Brooklyn.—*Board of Education.*

Annual Reports.

1852.

Annual report of the superintendent of public schools [S. L. Holmes] . . . to the Board of Education, Feb. 1, 1853. *Brooklyn: I. Van Anden's Presses*, 1853. 30 pp. pap. 8°. A

Preceded by an historical statement of the workings of the board since its establishment in 1843.

1853.

Annual report of the superintendent [S. S. Randall], etc. *Brooklyn*, 1854. 15 pp. pap. 8°. A

1854.

Lacking.

1855.

Lacking.

1855/6.

First annual report of the city superintendent of schools [J. W. Bulkley] of the consolidated city of Brooklyn; for the year ending Jan. 31, 1856, together with other documents concerning the schools . . . *Brooklyn: L. Darbee & Son, prtrs.*, 1856. 80 pp. pap. 8°. A

1856/7.

Second annual report, etc. *Brooklyn*, 1857. 73 pp. pap. 8°. A

1857/8.

Third annual report, etc. *Brooklyn*, 1858. 91 pp. pap. 8°. A

1858/9.

Fourth annual report, etc. *Brooklyn*, 1859. 101 pp. pap. 8°. A

1859/60.

Fifth annual report, etc. *Brooklyn*, 1860. 107 pp. pap. 8°. A

1860/1.

Lacking.

1861/2.

Seventh annual report, etc. *Brooklyn: Geo. C. Bennett, prtr.*, 1862. 96 pp. pap. 8°. A

1862/3.

Lacking.

1863/4.

Lacking.

1864/5.

Tenth annual report, etc. *Brooklyn*, 1865. 92 pp. pap. 8°. A

1865/6.

Eleventh annual report, etc. *Brooklyn: Daily Times Print*, 1866. 94 pp. pap. 8°. A

1866/7.

Twelfth annual report, etc. *Brooklyn: L. Darbee & Son, prtrs.*, 1867. 140 pp. pap. 8°. A

1867/8.

Thirteenth annual report, etc. *Brooklyn: Bergen & Tripp, prtrs.*, 1868. 132 pp. pap. 8°. A

1868/9.

Fourteenth annual report, etc. *Brooklyn: For the Board*, 1869. 98 pp. pap. 8°. A

1869/70.

Fifteenth annual report, etc. *Brooklyn*, 1870. 139 pp. pap. 8°. A

1870/1.

Sixteenth annual report, etc. *Brooklyn: R. M. Whiting, prtr.*, 1871. 38, lxxv. pp. pap. 8°. A

1871/2.

Seventeenth annual report, etc. *Brooklyn*, 1872. 74, 98 pp. pap. 8°. A

1872/3.

Lacking.

1873.

Annual report [19] of the superintendent of public instruction [Thomas W. Field] for the year ending Dec. 31, 1873. *Brooklyn: R. M. Whiting, Jr., & Co.*, 1874. 43 pp. pap. 8°. A

1874.

Annual report [20], etc. *Brooklyn*, 1875. 23, 105 pp. pap. 8°. A

1875.

Annual report [21], etc. *Brooklyn*, 1876. 144 pp. pap. 8°. A

1876.

Annual report [22], etc. *Brooklyn*, 1877. 52, 164 pp. pap. 8°. A

Reports for 1876–1880 bound together.

1877.

Annual report [23], etc. *Brooklyn*, 1878. 52, 163 pp. 8°. A

Bound with above.

1878.

Annual report [24], etc. *Brooklyn*, 1879. 52, 164 pp. 8°. A

Bound with above.

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1879.

Annual report [25], etc. *Brooklyn*, 1880. 55, 149 pp. 8°. A
Bound with above.

1880.

Annual report [26], etc. *Brooklyn*, 1881. 32, 158 pp. 8°. A
Bound with above.

1881.

Annual report [27] of the superintendent of public instruction [Calvin Patterson], etc. *Brooklyn*, 1882. 13, 175 pp. pap. 8°. A

1882.

Twenty-eighth annual report, etc. *n. p.*, n. d. 205 pp. pap. 8°. A

1883.

Twenty-ninth annual report, etc. *n. p.*, n. d. 29, 221 pp. pap. 8°. A

1884.

Thirtieth annual report, etc. *n. p.*, n. d. 29, 218 pp. pap. 8°. A

1885.

Thirty-first annual report, etc. *n. p.*, n. d. 37, 249 pp. pap. 8°. A

1886.

Thirty-second annual report, etc. *n. p.*, n. d. 59, 260 (1) pp. pap. 8°. A

1887.

Thirty-third annual report, etc., of the superintendent [Wm. H. Maxwell], etc. [*Brooklyn: Thomas Larkin, prtr.*, 1888.] 72, 276, 100 pp. pap. 8°. A

1888.

Thirty-fourth annual report, etc. [*Brooklyn: W. W. Davis, prtr.*, 1889.] 89, 314 pp. pap. 8°. A

1889.

Thirty-fifth annual report, etc. [*Brooklyn*, 1890.] 91, 296 pp. pap, 8°. A

1890.

Thirty-sixth annual report, etc. [*Brooklyn: T. J. Dyson, prtr.*, 1891.] 80, 302 pp. pap. 8°. A

1891.

Thirty-seventh annual report, etc. [*Brooklyn: Citizen Job Print*, 1892.] 83, 251 pp. cl. 8°. A

1892.

Thirty-eighth annual report, etc. [*Brooklyn*, 1893.] 102, 211 pp. pap. 8°. A

1893.

Thirty-ninth annual report, etc. [*Brooklyn*, 1894.] 92, 212 pp. cl. 8°. A

1894.

Fortieth annual report, etc. [*Brooklyn: T. B. Sidebotham, prtr.*, 1895.] 65, 230 pp. cl. 8°. A

1895.

Forty-first annual report, etc. [*Brooklyn*, 1896.] 103, 233 pp. cl. 8°. A

1896.

Forty-second annual report, etc. [*Brooklyn: T. J. Dyson & Son*, 1897.] 118 pp. pap. 8°. A

—— Same. With detailed statements, etc. [*Brooklyn*, 1897.] 118, 243 pp. cl. 8°. A

1897.

Forty-third annual report, etc. [*Brooklyn: J. Polhemus Prtg. Co.*, 1898.] 80 pp. pap. 8°. A

[Manual.]

1856.

Manual of the Board of Education, with rules and regulations for the government of the public schools... Adopted April 15, 1856. *Brooklyn: I. Van Anden's Presses*, 1856. 60 pp. pap. 12°. A

1858.

Manual, etc. Revised and adopted May 4, 1858. *Brooklyn: Geo. C. Bennett, prtr.*, 1859. 72 pp. pap. 12°. A

—— Same. *Brooklyn*, 1860. 67 pp. 12°. A

1867.

Manual of the Board of Education... Revised and adopted September, 1867. *Brooklyn, E. D.: L. Darbee & Son, prtrs.*, 1867. 127 pp. pap. 12°. A

1873.

Manual, etc. *Brooklyn: R. M. Whiting, Jr., & Co.*, n. d. lxx., 185 pp. bds. 8°. A
Contains a history of the founding and growth of the public school system in New York and Brooklyn up to this time.

[Proceedings.]

Proceedings of the Board of Education, 1867–1879, 1882, 1886. *n. t. p.*, 1867–75. *Brooklyn: For the Board*, 1876–86. 8°. A

Brooklyn.—*Education Board.* Report of the minority of the committee on studies... on the question of introducing the study of German in the public schools. [*Brooklyn*,] n. d. 12 pp. pap. 8°. A

—— —— By-laws of the board... with rules and regulations for the government of the public schools,... adopted May, 1843. *Brooklyn: I. Van Anden*, 1843. 29 pp. 12°. A

—— —— By-laws of the board... with rules and regulations for the government of the public schools... adopted Sept. 4, 1849. *Brooklyn*, 1849. 46 pp. 12°. A

—— *Truant Law Committee.* Annual report of the Committee... with reports of the Superintendent and Physician, of the Juvenile House of Industry, "Truant Home." *Brooklyn*, 1860. 8°. 1860. A

—— *Education Department.* Report of the Special Committee, to whom was referred so much of the 9. annual report of the Superintendent of Public Schools of the City of Brooklyn, as relates to absenteeism and truancy. *Brooklyn*, 1865. 8 pp. 8°. A

—— *Education Board.* Report of the special committee... on school-house accommodation, presented Dec. 4, 1866. *Brooklyn*, 1867. 9 pp. 8°. A

—— —— In the matter of the act to secure to children the benefit of an elementary education... [*Brooklyn*, 1875.] 8 pp. pap. 8°. A

—— —— Report of Teunis G. Bergen, President of the Board of Education of Brooklyn for 1884. *Brooklyn*, 1885. 39 pp. pap. 8°. A

—— —— An act to secure to children the benefit of an elementary education,... and report of

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the committee on attendance, presented March 7, 1876. *Brooklyn: Eagle . . . prtg. dept.*, 1876. 52 pp. pap. 8°. A

—— —— An act to secure to children the benefit of an elementary education, . . . with rules of the Board of education, concerning habitual truants. *Brooklyn: Union-Argus Job-prtg. Establishment*, 1877. 15 pp. pap. 8°. A

—— —— Names and residences of the officers and members of the board of education of Brooklyn for 1873/4, '75/6. *Brooklyn*, [1873–]75. 12°. A

—— —— Report of the special committee on drawing in the public schools of . . . Brooklyn. Submitted . . . and accepted . . . June 2, 1874. *Brooklyn: R. M. Whiting & Co., prtrs.*, 1874. 14 pp. pap. 8°. A

—— —— New course of study for the public schools of . . . Brooklyn, referred to the Committee on Studies, January 4, 1876. And adopted by the Board . . . April 16, 1878 . . . [*Brooklyn*, 1878.] 99 pp. pap. 16°. A

—— *Public Education Advisory Committee.* Report. [Jan. 21, 1895.] *New York: Evening Post Job-Prtg. House* [1895]. 22 pp. 8°. A

Nickerson's illustrated church musical and school directory of New York and Brooklyn. *New York: Dickerson & Young* [cop. 1895]. 276 pp. 8°. L

INDIVIDUAL SCHOOLS.

Adelphi Academy. Annual cat. no. 2, 4, 6–7 (old ser.); [1,] 3, 5–6, 13, 21–[32?] (new ser.) (1864/5, '66/7 '68/9–'69/70, '71/2, '73/4–'74/5, '81/2, '93/4–1901). *Brooklyn*, 1864–1901. 12° and 8°. A

—— Inaugural exercises on the occasion of the installation of Col. H. B. Sprague, as principal . . . *New York*, 1870. 42 pp. 8°. A

—— Extracts from the annual report of the principal, June, 1890. [*Brooklyn*, 1890.] 10 pp. 8°. A

—— The Adelphie (1890–91). *New York* [1890–91]. 8°. A

—— Founders' day exercises at the chapel of the Academy, 1892. Addresses of Mr. C. M. Pratt, and of Rev. B. P. Raymond. [*New York*, 1892.] 19 pp. 8°. A

Adelphi College. Annual catalogue. no. 1–[5]. (1896/7–1901). *Brooklyn*, 1897–1901. 12°. A

Brooklyn Chautauqua Union. Year Book, 1896. *Brooklyn*, 1897. 12° A

Brooklyn College of Pharmacy. Annual announcement. no. 3–4 6–10 (1893/4–94/5, '96/7–1900/1901). *Brooklyn* [1893–1900]. 8°. A

Brooklyn Collegiate and Polytechnic Institute. *See* **Polytechnic** Institute of Brooklyn.

Brooklyn Female Academy. *See* **Packer** Collegiate Institute.

Brooklyn Free Kindergarten Society. Annual report. no. 1, 3–5 (1892, '94–'96). [*Brooklyn*, 1892–'96.] 12°. A

1892–'94 called Brooklyn Kindergarten Assoc.

Brooklyn French Institute. [Announcement.] *New York*, 1859. 16 pp. 8°. A

Brooklyn Heights Seminary. Annual catalogue and circular. no. 5, 8, 11, 13, 15, 19, 23, 32 (1855/56, '58/59, '61/62, '63/64, '65/66, '69/70, '73/74, '82/83). *New York*, 1856–83. 8°. A

—— An address on Female education read at the annual commencement . . . by A. Gray. *New York*, 1854. 8°. A

—— [Announcement of change of management. *Brooklyn*, 1889.] 6 l. sq. 24°. A

Brooklyn High School for the Education of Young Gentlemen. Circular, 1846–47. *New York*, 1846–47. 12°. A

Brooklyn Hill Collegiate and Musical Institute for Young Ladies. Circular, 1878/80. *Brooklyn*, 1879–80. sq. 12°. A

Brooklyn Industrial Institute. An address at the opening of the annual exhibition . . . by J. Neilson. *Brooklyn*, 1873. 8°. A

Brooklyn Institute. Annual report, 1848, '58, '66, '68. [*Albany?* 1848–'68.] 8°. (Senate & assem. doc.) A

—— Bulletin for Oct., Dec., '91; Dec., '95; Oct., '96; Jan., March–May, Oct.–Dec., '97; Jan.–April, Nov., 98—date. *Brooklyn*, 1891–date. ob. 24°. A

—— Charter and by-laws. *Brooklyn*, 1844. 19 pp. 16°. A

—— Prospectus of lectures on science and art. (1888/9.) [*Brooklyn*, 1888.] nar. 8°. A

—— Prospectus for 1891/2–1901/2. *Brooklyn* [1891–1901]. 12°. A

—— Weekly tickets, 1896–1901. [*Brooklyn*, 1896–1901.] nar. 16°. A

—— Year-book. no. 1–4, 6–10, 12. (1888–91/2, '93–97, '97/8, '99/1900.) *Brooklyn*, 1889–1900. 16° and 12°. A

—— The purposes of the . . . institute . . . Remarks made by Rev. L. T. Chamberlain, D.D., at the first meeting of the incorporators of the . . . institute . . . March 3, 1890. *Brooklyn*, 1890. 12°. A

—— Astronomical hand-book, for 1892. *Brooklyn*, 1892. 8°. A

—— *Biological Laboratory.* Season 2, 3, 8. (1891, 1892, 1897.) *Brooklyn*, 1891–'97. 8°. A

1891 called circular of information.
1892 called preliminary announcement.

—— *Department of Engineering.* Year-book, 1891/2. *Brooklyn*, 1891. 12°. A

—— *Department of Fine Arts.* Illustrated catalogue of the Goodyear collection of photographs of Italian architecture and sculpture, and of the survey of Italian mediæval buildings. Text by Wm. H. Goodyear. [*Brooklyn*, 1896.] 8°. A

Reprint from the Architectural Record.

—— *Department of Geography.* Catalogue of the exhibition of geographical appliances, used in schools or libraries; collected . . . and exhibited by the Dept. of Geography of the Brooklyn Institute, Brooklyn, 1891. *Brooklyn*, 1891. 8°. A

—— *Graham Lectures.* On the power, wisdom and goodness of God, as manifested in his works. Published by the Brooklyn Institute. v. 4. *New York*, 1874. 8°. A

v. 4 Agassiz (L. [J. R.]) The structure of animal life, 3. ed. 1874.

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—— *Department of Music.* [Courses, concerts and recitals announced for] 1896–1901. *Brooklyn,* 1896–1901. 8° and 4°. L

—— *Department of Photography.* Exhibition of photographs. no. 1. (1891.) *Brooklyn,* 1891. ob. 24°. A

—— *School of Political Science.* [Prospectus] 1892/3, 1895/6–'96/7, '98/9. [*Brooklyn,* 1892–'99.] 12°. A

Brooklyn Juvenile High School. Annual circular and catalogue. no. 10–11 [13–17, 22] (1863/4–'64/5, '67/8–'71/2, '76/7). *Brooklyn,* 1863–'76. 8°. A

Brooklyn Kindergarten Association. *See* **Brooklyn** Free Kindergarten Society.

Brooklyn Latin School for Boys. [Announcement,] 1888/9. 6. year. [*Brooklyn,* 1888.] sq. 24°. A

Brooklyn Mechanico-Therapeutic Institute. Mechanico-therapeutics: . . . By A. L. Wood. *Brooklyn,* 1890. 12°. A

Brooklyn Preparatory School. Annual catalogue. no. 5–6 (1885–'86). *Brooklyn,* 1885–'86. 12°. A

Browne's Business College and Academy of English Branches. Prospectus. *New York,* 1869. 40 pp. 8°. A

Bryant and Stratton International Business College. *See* **Bryant** and Stratton Business College.

Bryant, Stratton, Packard and Penn's Business College. *See* **Bryant** and Stratton Business College.

Bryant and Stratton Business College. Annual catalogue. no. 7, 11, 14, 24, 26–27 (1868, '72, '75, '85, '87–'88). *Brooklyn,* 1872–88. 8°, 12°, 24°. A

In 1868, called Clark's Business College, Bryant and Stratton chain; in 1872, called Bryant and Stratton International Business College, Brooklyn.

Clark and Brownell Classical and English School. *See* **Classical** and English School of Clark and Brownell.

Clark's Brooklyn Business College, Bryant and Stratton Chain. *See* **Bryant** and Stratton Business College.

Classical and English School of Clark and Brownell. Annual catalogue. (1858/59–'59/60.) *New York,* 1859–'60. 8°. A

Clinton Institute. Annual catalogue. no. 1 (1861/'62). *Brooklyn,* 1862. 12°. A

College Grammar School. Annual catalogue. no. 19, 31 [36] (1868, '80, ['85]). *Brooklyn,* 1868[–85]. 8° and 12°. A

No. 19 called "Annual circular."

College of Pharmacy of the City of Brooklyn. *See* **Brooklyn** College of Pharmacy.

Collegiate School. Annual circular. no. 1. 1864. *Brooklyn,* 1864. 24°. A

Columbian Institute and Kindergarten. Catalogue and circular. *Brooklyn,* 1877. 20 pp. nar. 12°. A

Formerly called the Remsen Street School.

Cumberland Academy. Annual catalogue and circular. no. 3. 1874. *Brooklyn,* 1874. 8°. A

Dudley's (Miss) Seminary. Catalogue. no. 1–2 (1867/8–68/9.) [*Brooklyn,*] 1868–69. 8°. A

Friends' School for Boys and Girls. Annual circular, no. 14, 23–25 (1880/81, '89/90–'91/92). *Brooklyn,* 1880–92. ob. 48° and 12°. A

No. 14. Title-page reads, "Catalogue and circular of the Friends Seminary."

Friends' Seminary. *See* **Friends'** School for Boys and Girls, Brooklyn.

Froebel Academy. Annual catalogue. no. 8–9 (1891/2, '92/3). *Brooklyn, N. Y.,* 1891–93. sq. 16°. A

Under the direction of Pratt Institute.

Heffley School of Commerce. Circular of information, 1894/5–1900/1901. *Brooklyn* [1894–1900]. 8°. A

Formerly Pratt Institute—Dept. of Commerce. 1894/5, 1895/6, called Announcement. 1897/8–98/9 are numbered II.–IV. New ed., Feb. 1, 1901.

Lafayette Institute. Annual catalogue. no. 11 (1870/71). *Brooklyn,* 1871. nar. 12°. A

Long Island Business College. Annual catalogue, 1880–'81. *Brooklyn* [1880–81]. 8°. A

—— Prospectus [1896/7–97/8]. [*Brooklyn,* 1896–'9.] 16°. A

Formerly called Wright's Business College.

Mansfield Academy. The satchel. v. 1, no. 2–6 (July, 1867–Jan., 1868). [*Brooklyn,*] 1867–68. 12°. A

Normal Business College.—English, Business, and Classical School. Annual catalogue. no. 4–5, 7 (1873/4–74/5, '76/7). *Brooklyn* [1873–76]. 8°. A

Packer Collegiate Institute. Annual catalogue. no. 1–2, 4–6, 8 [15, 18–23, 25–30, 34], 38–40, 46, 48, 51 (1846/7–'47/8, '49/50–'51/2, '53/4, '60/1, 63/4–'68/9, '70/1–'75/6, '79/80, '82/3–'85/6, '90/1, '92/3, '95/6). *New York,* 1846–'96. 12°. A

Name formerly Brooklyn Female Academy. Early nos. called "Circular and Catalogue." nos. 1–2 in two parts, called "Circular" and "Annual Commencement."

—— Annual commencement of the Brooklyn Female Academy. no. 1–2 (1847–'48). *New York,* 1847–'48. 12°. A

—— By-laws. *Brooklyn,* 1858. 12°. A

—— Minutes of the annual meeting of the stockholders of the Brooklyn Female Academy. no. 5–7 (1850–'52). *Brooklyn,* 1850–52. 8°. A

No. 5, title-page reads: Proceedings of stockholders at their [annual] meeting.

—— The Messenger-bird; a periodical conducted by the alumnæ of the Brooklyn Female Academy. v. 1 (Apr., 1849–Mar., 1850). *Brooklyn,* 1849–50. 8°. A

—— The Neophyte. Conducted by the young ladies. v. 1, no. 1, 3–4 (Dec., 1860, Feb.–Mar., '61). [*Brooklyn,* 1861.] 8°. A

—— The Packer, '90. Edited by the second year class. *Brooklyn,* 1889. 39 pp. 8°. A

—— Packer alumna; published semi-annually by the associate alumnæ of the Packer Collegiate Institute. v. 9, no. 2 (Dec., 1893). *Brooklyn,* 1893. F°. A

—— Packer Quarterly. v. 1; 2, no. 3; 3, no. 1, 3; 4–6, no. 3; 7, no. 2–3; 9; 10, no. 2–3; 11 (Dec., '68–June, '69; Apr., Dec., '70; Apr., '71; Oct., 71–Mar., '74; Jan.–Mar., '75; Oct., '76–June, Dec., '77–Apr., Oct., '78–June, '79). *Brooklyn,* 1868–79. 4°. A

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—— Act of incorporation and articles of association of the Brooklyn Female Academy; together with a list of stockholders, by-laws, trustees' second annual report . . . etc. *Brooklyn*, 1847. 30 pp. 8°. A

—— Celebration of the opening of the . . . institute for the education of females in the city of Brooklyn, Nov. 9, 1854. Address of Rev. Francis Vinton. *Brooklyn*, 1854. 37 pp. 8°. A

—— Historical cantata. *Brooklyn*, 1859. 31 pp. 8°. A

—— Woman in history. An entertainment given by the senior class of the . . . institute, in aid of the Brooklyn and Long Island sanitary commission . . . January, 1864. *Brooklyn*, 1864. 28 pp. 8°. A

Polytechnic Institute of Brooklyn. Catalogue. no. 1, 8–22, 24, 26–28, 32, 34, 39–[45] (1855/6, '62/3–'76/7, '78/9, '80/1–'82/3, '86/7, '88/9, '93/4–1900). *Brooklyn*, 1856–1900. 8°. A

Formerly called "Brooklyn Collegiate and Polytechnic Institute."

—— Annual report of the board of trustees. no. 1. 1854. *New York*, 1854. 16°. A

—— Charter and by-laws. *n. p.* [1890?] 20 pp. 24°. A

—— Rules of order. [*New York*, 1859.] 4 pp. 32°. A

—— Monthly journal of the Polytechnic literary society of the Polytechnic Institute, Brooklyn. v. 2, no. 2–3, 5 (Dec., '72–Jan., Mar., '73). *Brooklyn*, 1873. 8°. A

—— The Polytechnic published by the undergraduates of the Polytechnic Institute of Brooklyn. v. 3, no. 1–2 (Oct.–Nov., 1892). [*Brooklyn*,] 1892. F°. A

—— The Polywog. [1887–]'88. [*Brooklyn*, 1887?–'88.] 8°. A

—— Catalogue of the library of the . . . institute [and of the Zetalethean society]. [*Brooklyn*,] 1861. 58 pp. 16°. A

—— Retrospect and outlook. *Brooklyn*, 1890. 25 pp. sq. 4°. A

Pratt Institute. Catalogue. 1890/1–'93/4, '95/6, '97/8, '99/1900. *Brooklyn*, 1890–1900. 8°. A

—— Announcement. 1888/9–'89/90. [*New York*, 1888–]90. 16°. A

—— Hand book of information, 1892/93. *Brooklyn*, 1893. 12°. A

World's fair edition.

—— Exhibit of the women graduates and pupils of . . . institute. Columbian exposition, 1893. [*Brooklyn*, 1893.] 16 pp. 24°. A

—— Plans and working drawings, with bill of material of the Workingman's model home erected by the board of general managers of the New York state exhibit at the World's columbian exposition, Jackson Park, Chicago, Ills., 1893. Plans made and furnished by the Pratt Institute. [*Brooklyn*, 1893.] 3 l. 8°. A

—— *Department of Commerce.* *See* **Heffley** School of Commerce.

—— *Library School.* School of library training, [circular] 1898/9–1900/01. *Brooklyn* [1898–1900]. 8°. A

—— —— Lectures on general literature. [*Brooklyn*, 1893–'94.] 96 lectures. 4°. A

nos. 1–2, Oriental literature; nos. 3–5, Greek literature; nos. 6–7, Roman literature; nos. 8–11, Italian literature; nos. 12–13, Scandinavian literature; nos. 14–21, German literature; nos. 22–29, French literature; nos. 30–31, Spanish literature; no. 32, Russian literature; nos. 33–83, English literature; nos. 84–96, American literature.

—— —— *Class of 1894.* Annual report, 1895–'98. [*Brooklyn*, 1895–98.] F°. A

Typewritten.

—— —— *Graduates' Association.* Report, 1897/8. *New York*, 1898. 16°. A

—— [Constitution, list of members, etc.] *n. p.* [1897?] 8 pp. 32°. A

—— [Constitution and by-laws.] *n. p.* [1897?] 1 f. F°. A

Public School. No. 15. The journal, pub. monthly by the B. 1st Boys, P. S., no. 15, v. 2, no. 3 (Dec., 1886). *Brooklyn*, 1886. 4°. A

Remsen Street School. *See* **Columbian** Institute and Kindergarten.

Reunds's (Miss) School. Annual catalogue. no. 11 (1886/87). *Brooklyn*, 1887. 12°. A

Saint Ann's Hall for the Christian Education of Young Ladies. Circular letter to patrons. *New York*, 1852. 8 pp. 8°. A

Saint Francis College. The journal. St. Francis College, Edited by one of the brothers. Grand entertainment . . . 1886–'87, '90–'91. *Brooklyn*, 1886–'90. nar. 4°. A

Whitcomb's (Miss) English, French, and German Day-School for Young Ladies and Children. Announcement and circular. nos. 19, 21 (1889/90, '91/92). *Brooklyn*, 1889–92. sq. 12°. A

Wright's Business College. *See* **Long Island** College.

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Amaranth (The). [Constitution and by-laws.] [*Brooklyn*, 1871.] 8 pp. 24°. A

Brooklyn Barnard Club. By-laws, lists of the officers and members. 1897–98/9. *Brooklyn*, 1897–98. sq. 16°. A

Brooklyn Caledonian Club. Constitution and by-laws. *Brooklyn*, 1869. 32 pp. 24°. A

Brooklyn (The) Club. Charter, by-laws, list of officers and members. (1866, '70, '72, '74, '76, '78, '90, '97.) *Brooklyn*, 1866–97. 12°. A

1866 title: "Certificate of incorporation, and by-laws, with the names of members." 1870–78 title: "By-laws with the names of members."

—— Treasurer's report, 1870/1. [*Brooklyn*, 1871.] 8°. A

—— Statement for the year 1890/91. *Brooklyn*, 1891. 8°. A

—— Rules for the game of euchre. *Brooklyn*, 1885. 16 pp. 12°. A

—— Dinner in celebration of the twenty-fifth anniversary . . . April 24, 1890. Toasts, speeches, and testimonial to Mr. B. D. Silliman. *Brooklyn*, 1890. 37 pp. 8°. A

Brooklyn Congregational Club. The church and its veterans, an address by W. I. Washburn. *New York*, 1895. 16 pp. 12°. A

Brooklyn Woman's Club. Paintings and other works of art by women artists of New York and Brooklyn. *New York*, 1890. 10 l. 12°. A

Business Women's Union. Annual report. No. 1, 4. (1871, '74.) *Brooklyn*, 1871–'74. nar. 12°. A

—— [Appeal for cheap boarding houses for the better class of women engaged in industrial pursuits.] *Brooklyn*, 1872. 2 l. 8°. A

Central Union Club of Brooklyn. Campaign document, no. 1. *Brooklyn*, 1864. 8°. A

Clerical Society of Brooklyn. Constitution and by-laws, with the names of the members and the exaugural address of the late president, M. W. Dwight. *Brooklyn*, 1845. 16 pp. nar. 8°. A

Clinton Club. By-laws and list of members. *Brooklyn*, 1880. 24°. A

Columbian Club. Annual report, 1883. *New York*, 1883. sq. 16°. A

Crescent Athletic Club. Club book. 1889, '91–92, '96, '98–1901. *Brooklyn*, 1889–1901. 16°. A

—— A modern Columbus, a saltitorial medley by Mr. Wm. D. Preston, presented by company I. seventh regiment, N. G. S. N. Y., under the auspices of the . . . Club. [*Brooklyn*, 1890.] 12 l., 1 pl. ob. 24°. A

Excelsior Baseball Club. Constitution and by-laws. *New York*, 1865. 25 pp. 32°. A

Excelsior Club. [Constitution, by-laws, certificate of incorporation and list of members.] *Brooklyn*, 1881. 29 pp. 16°. A

Hamilton Club. By-laws, list of officers and members. 1882; '84 Jan., Sept.; '85–88, '90–'91, '97, '99. *Brooklyn*, 1882–'99. sq. 12°. A

1882 contains also Act of incorporation, and preliminary proceedings.

—— Temporary list of names and addresses. [*Brooklyn*, 1886?] 28 pp. 8°. A

—— Exhibition of pictures by American artists, April 13, 1887. [*Brooklyn*, 1887.] 4 l. 12°. A

—— An account of the dinner by the Hamilton Club to Hon. James S. T. Stranahan . . . Dec. 13, 1888. *Brooklyn*, 1889. 84 pp., 1 port. 8°. A

—— Address of . . . M. Woolsey Stryker, president of Hamilton college . . . Jan. 11, 1895, the birthday of Alexander Hamilton. [*Brooklyn*, 1895.] 25 pp. 8°. A

Long Island Club. [Constitution, by-laws, etc.] *Brooklyn*, 187–?. 45 pp. 16°. A

Marine and Field Club. Constitution and by-laws, list of officers and members, 1897. [*Brooklyn*,] 1897. 16°. A

Oxford Club. [Certificate of incorporation, by-laws.] 1895–'96. [*Brooklyn*, 1895.] 16°. A

Rembrandt Club. Catalogue. Annual exhibition . . . *Brooklyn*, 1889. sq. 4°. A

Saint Patrick Society of the City of Brooklyn. Constitution and by-laws, 1877. *Brooklyn*, 1878. 3–14 pp. 16° A

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Baptist home of Brooklyn. Annual report. nos. 8–9, 12–13, 16, 20 (1883–84, '87–88, '91, '95). *New York*, 1883–95. 8°. A

Benevolent Association of the Church of the Holy Trinity. Constitution, 1850. *Brooklyn*, 1850. 4 pp. 24°. A

—— Proceedings at the anniversary meeting. nos. 2–7, 9 (1852–57, '59). *New York*, 1851–59. 8°. A

—— It grows, he knoweth not how. A sermon preached . . . on the anniversary of the . . . association by H. J. Whitehouse. *New York*, 1855. 8°. A

Brooklyn Association for Improving the Condition of the Poor. Annual report. nos. 4–5, 10–13, 16–18, 20–56 (1847–'48, '53–56, '59–'61, 62/3–'99. *Brooklyn*, 1848–99. 16° and 8°. A

—— The directory, year, 10, 13, 16, 18–19 (1853/4. '56/7, '58/9, '60/1–61/2.) *Brooklyn*, 1853–61. 32°. A

—— Brooklyn charities record and directory. v. 1, no. 1–2. (Feb.-Apr., 1878.) *Brooklyn*, 1878. 4°. A

—— Report of the special investigator, 1878. *Brooklyn*, 1878. 8°. A

—— *General agent.* Annual report, 1880. *Brooklyn*, 1880. 16 pp. 8°. A

Brooklyn Assistant Society for Relieving and Advising Sick and Poor Persons. Constitution. *Brooklyn*, 1813. 14 pp. 16°. A

Brooklyn Benevolent Society. Report of the attorney and counsellor in relation to property of the . . . society. *Brooklyn*, 1854. 42 pp. 8°. A

Brooklyn Bureau of Charities. Annual report. nos. [2?, 5–10, 12,] 14–20([1880,] 1884–'89, '91, '93–99). *New York*, 1880–99. 12°. A

—— Papers read at the Charity conference, under the auspices of the . . . Bureau . . . March 31st [1881]. *New York*, 1881. 52, 20 pp. 8°. A

—— [Tracts.] no. 4 (Dec. 1881). [*Brooklyn*, 1881.] 8°. A

Brooklyn Children's Aid Society. Annual report. nos. 1–15, 19, 22–34 (1866/7–79/80, '83/4, '86/7–98/9). *Brooklyn*, 1866–99. 8° & 12°. A

No. 1–2 have title, "History of the Brooklyn Children's Aid Society"; no. 9 imperfect.

—— History of the . . . society, from its organization to February 1, 1868. *Brooklyn*, 1868. 33 pp. 8°. A

Incl. 1–2 annual reports.

—— By-laws adopted 1882, revised 1887. [*Brooklyn*, 1887?] 12°. A

Brooklyn City Bible Society. Annual report. nos. 3, 14, 17, 30–34, 45 (1843, '54/5, '57/8, '70/1–74/5, '85/6). *Brooklyn*, 1844–86. 8°. A

No. 3 contains also: "Constitution, etc."

Brooklyn City Mission and Tract Society. Annual report. nos. 18–21, 23–24, 26–28, 30–31 (1847–'50, '52–'53, '55–'57, '59/60–60/1). *Brooklyn*, 1848–61. 8°. A

1848 contains also Constitution and the By-laws of the board of directors. Pub. in N. Y.

—— City mission and tract journal, Nov. 1866, Nov. '67, May '68, May '70, Nov. '71, Nov. '74. *Brooklyn*, 1866–74. 4°. A

—— [Report] At the quarterly meeting Oct. 1851. *New York*, 1851. 8°. A

Brooklyn City Tract Society. *See* **Brooklyn** City Mission and Tract Society.

Brooklyn Female Bible Society; auxiliary to the American Bible Society. Report. no. 1 (1826). *Brooklyn*, 1826. nar. 12°. A

Brooklyn Female Employment Society. Annual report. nos. 1, 3–4, 8–15, 18–22, 26, 33 (1854/5, '56/7–'57/8, '61/2–'68/9, '71/2–'75/6, '79/80, '86/7). *Brooklyn*, 1855–87. 8°. A

Brooklyn Guild Association. Annual report. no. 12 (1900/01). [*Brooklyn*,] 1901. 12°. A

—— [Object and work, with the by-laws.] [*Brooklyn*, 1890.] 12 pp. 16°. A

Brooklyn Home for Aged Men. Annual report. nos. 1, 3–5, 7–8, 17–19 (1878/9, '80/1–'82/3, '84/5–85/6, '95–97). *Brooklyn*, 1879–97. 8°. A

Title pages read "Manual."

Brooklyn Home for Consumptives. Annual report. nos. 1, 3–6, 10–12, 14, 16–19 (1881/2, '83/4–'86/7, '90/1–'92/3. '94/5, '96/7–99/1900). *New York*, 1883–1900. 8°. A

Formerly the Garfield Memorial Home.

Brooklyn Industrial Institute. Prospectus. Annual exposition. no. 2 (1873). *New York* [1873]. 8°. A

Brooklyn Industrial School Association and Home for Destitute Children. Annual report. nos. 8–16, 18, 20, 22–28, 31, 34–46 (1861/2–'69/70, '71/2, '73/4, '75/6–'81/2, '84/5, '87/8–1900/01). *Brooklyn*, 1862–1901. 8°. A

—— A statement of facts in regard to the [management]. *Brooklyn*, 1876. 8 pp. 8°. A

Brooklyn Methodist Episcopal Church Home for the Aged and Infirm. Annual report. nos. 1–2, 4–5 (1883–'84, '86–'87). *New York*, 1884–'87. 8°. A

Brooklyn Orphan Asylum. Brief history and statistics. *Brooklyn*, 1871. 8 pp. 12°. A

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Brooklyn Society for the Prevention of Cruelty to Children. Annual report. nos. 1–19 (1881–1899). 12°. A

—— By-laws and articles of incorporation. 1881, 1894, 1900. *Brooklyn* [1881–1900]. 12°. A

Brooklyn Society for the Relief of Respectable, Aged, Indigent Females. Annual report. nos. 2, 7–10, 15–16, 18–19, 21–24, 31, 36 (1852, '57–'60, '65–'66, '68–'69, '71–'74, '81, '86). *Brooklyn*, 1859–87. 8°. A

Brooklyn Theatre Fire Relief Association. Report of the executive committee. [*Brooklyn*, 1879.] 8 pp. 8°. A

Brooklyn Training School and Home for Young Girls. Annual report. nos. 9–11 (1898–'99/1900). *New York*, 1898–1901. 8°. A

—— The kirmess festival. [*Brooklyn*, 1890.] 43 pp. ob. 24°. A

Includes first annual report, 1890.

Catholic Women's Association. Annual circular, season, 1899/1900. [*Brooklyn*, 1899.] ob. 32°. A

—— *Employment Bureau.* The Pathfinder. Published under the auspices of the . . . Bureau. vol. 1. no. 1–2. *Brooklyn*, 1899. F°. A

Charity Conference. *See* **Brooklyn** Bureau of Charities.

Children's Aid to the Women's Health Protective Association. *See* **Women's** Health Protective Association.

Church Charity Foundation. Annual report. nos. 4, 6, 8–11, 15, 17, 20, 22–24, 27–29, 32–33, 35–38, 40, 46 (1856, '58, '60–'63, '67, '69, '72, '74–'76, '79–'81, '84–'85, '87–'90, '92, '98). *Brooklyn*, 1856–98. 8°. A

—— The Church Charity Foundation. [A circular and appeal.] *Brooklyn*, 1852. 7 pp. 12°. A

—— [Description, with certificate of incorporation, by-laws and rules.] *Cambridge*, 1868. 38 pp. 8°. A

—— [Origin and progress; with constitution and by-laws.] *Cambridge*, 1868. 38 pp. 8°. A

—— An appeal in behalf of the home for the aged and the orphan house. *Brooklyn*, 1885. iv, 5–12 pp. 12°. A

City mission and tract journal. *See* **Brooklyn** City Mission and Tract Society. City mission and tract journal.

City Mission and Tract Society, Brooklyn. *See* **Brooklyn** City Mission and Tract Society.

Female Employment Society. *See* **Brooklyn** Female Employment Society.

Foreign Missionary Society of New York & Brooklyn. Annual report. no. [23,] 37 (1849/50, '63/4). *New York*, 1850–65. 8°. A

Garfield Memorial Home. *See* **Brooklyn** Home for Consumptives.

Grace Church Employment Society, Brooklyn Heights. Annual report. no. 13, 19–22 (1877, '83–'86). *Brooklyn*, 1877–86. 8°. A

For other reports see church year-book.

Grace Church Parish School Guild. By-laws. *Brooklyn*, 1882. 2 l. 8°. A

Graham Home for Old Ladies. Annual report. no. 49 (1900). *Brooklyn*, 1900. 8°. A

Home for Aged Men. By-laws and certificate of corporation. *New York*, 1879. 14 pp. 8°. A

Juvenile House of Industry—"Truant Home"—of the City of Brooklyn. Annual report of the superintendent. no. 6 (1863). *Brooklyn*, 1864. A

no. 5, never published.

King's Daughters' Day Nursery. Annual report, no. 1 (1888/9). [*Brooklyn*, 1889.] 16° A

Long Island Bible Society. Annual report. nos. 11, 14–15, 17, 39, 50, 59,–60, 64, 77 (1826, '29–'30, '32, '54, '65, '74–'75, '79, '92). *Brooklyn* [1826–'92?]. 12°. A

New York and Brooklyn Foreign Missionary Society. *See* **Foreign** Missionary Society of New York and Brooklyn. A

Norwegian Relief Society. Annual report, with certificate of incorporation and by-laws. no. 5 (1887). *Brooklyn*, 1888. 12°. A

Orphan Asylum Society of the City of Brooklyn. Brief history and statistics of the Brooklyn orphan asylum. *Brooklyn*, 1871. 8 pp. 12°. A

—— Manual, 1859/60–'60/1, '62/3–'71/2, '73/4, '82/3, '87/88. *Brooklyn*, 1860–88. 8°. A

—— Constitution and by-laws. *Brooklyn*, 1874. 15 pp. 16°. A

Pratt Institute Neighborship Association. Report. nos. 1–2 (1895–'95/6). *Brooklyn* 1895–'96. nar. 12°. A

Pratt Institute Thrift Association. Annual report. no. 8–10. *Brooklyn*, 1897–'99. 8°. A

—— Circular of information. no. 2. *Brooklyn*, 1889. 16°.

Saint Ann's Church Benevolent Society. Constitution and by-laws. *Brooklyn*, 1860. 8 pp. nar. 16°. A

Saint Ann's Parish Guild. Annual report. no. 10 (1887/8). *Brooklyn* [1888]. 12°. A

Saint David's Benevolent Society of New York and Brooklyn. Constitution and by-laws of the society. *New York*, 1881. 24 pp. 24°. A

—— Annual dinner for 1886. *New York*, 1886. 8°. A

Saint Michael's Guild of Grace Church Chapel. Constitution and by-laws, 1873. *New York*, 1873. 11 pp. 12°. A

Saint Phebe's Mission Guild. Annual report. no. 3–5, 7 (1884/5–'86/7, '89/90). *Brooklyn*, 1885–'90. 8°. A

Saint Stephen's House. Report, 1873. [*Brooklyn*,] 1873. 8°. A

Saint Vincent's Home for Boys. Annual report. no. 12 (1880/1). *Brooklyn*, 1881. 8°. A

Scandinavian Sailors' Temperance Home. Annual report, with the by-laws. no. 3–7, 9–12 (1890/91–'94/5, '97/8–1900/01). *Brooklyn*, 1891–1901. 8°. A

Sheltering Arms Nursery of Brooklyn Annual report. no. 4–5, 8–21, 23–28 (1873/4–'74/5, '77/8–'90/91, '92/3–'97/98). *Brooklyn*, 1874–'98. 8°. A

Society of St. Vincent de Paul—*Diocese of Brooklyn.* Reports of conferences from the establishment of the society in the diocese to the feast of the Immaculate Conception, 1860. *New York*, 1861. 12°. A

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Union for Christian Work. Annual report. no. 4–29 (1870–'95). *Brooklyn*, 1870–96. 8° & 12°. A

Union Maternal Association. Annual report. nos. 1–2 (1861/2–62/3). *n. t. p.* [*Brooklyn*, 1862–63.] 8°. A

Union Missionary Training Institute, Brooklyn, N. Y., and Hackettstown, N. J. Annual report. no. 8–9 (1893–94). *New York*, 1893–94. 8°. A

Union Street Mission. Report, 1857. *Brooklyn*, 1857. 12°. A

Wayside Home. Annual report. no. 3–5 (1882/3–84/5). *Brooklyn*, 1883–85. 12°. A

Widows' and Orphans' Fund of the City of Brooklyn. Annual report of the auditing committee of the board of trustees, with an abstract of the treasurer's report, the report of the committee on relief; and a list of the pensioners. 1873. *New York*, 1874. 12°. A

Woman's Evangel, pub. by Woman's Home and Foreign Missionary Society. v. 1, no. 3; v. 2, no. 2–3; v. 4, no. 9 (Sept., 1875, Apr., '76, Nov., '76; May, '78). *Brooklyn*, 1875–78. 16°, 8°. A

Woman's Foreign Missionary Society of the M. E. Church.—Brooklyn Auxiliary. Annual report. no. 16 (1886). [*Brooklyn*, 1886.] 24°. A

Woman's Relief Association. Auxiliary to the U. S. Sanitary Commission. Report. [*Brooklyn*, 1863.] 15 pp., 1 table. 8°. A

Young Men's Christian Association. Annual report. no. 1, 6, 11–14, 25–30, 33–39, 41–45 (1853/4, 1859/60. 1864/5–1867/8, '77/8–'82/3, '86–'92, '94–'98/9). *Brooklyn*, 1854[–'99]. 8°. A

—— Bulletin. vol. 1, no. 12; vol. iv, no. 25 (Oct., 1867; Aug., '81). [*Brooklyn*, 1867–'81.] F°. A

—— [Reports; and an appeal for a gymnasium.] [*Brooklyn*, 1860.] 4 pp. F°. A

—— Why we should have a new building. [*Brooklyn*, 1871.] 36 pp. 16°. A

—— Good books and how to use them, by S. H. Berry. [*Brooklyn*,] 1889. 96 pp. 24°. A

—— Winter evenings and how to spend them. [*Brooklyn*, 1889.] 32 pp. 24°. A

—— What the . . . association does for the physical life, for the business life, for the social life, for the intellectual life, for the better life. [*Brooklyn*, 1891.] 20 pp., 2 l. sq. 24°. A

—— *Bedford Branch.* [Circular.] (1901/02.) [*Brooklyn*, 1901.] 16°. A

—— *Gymnasium.* Grand testimonial gymnastic and athletic exhibition, tendered to J. D. Andrews . . . Apr. 8, 1889. [*Brooklyn*, 1889.] 32 pp. 8°. A

—— *International Committee, Brooklyn Naval Branch.* A growing work. [*New York*, 1900.] nar. 12°. A

Young Women's Christian Association. Annual report. no. 1, 3 (1888, '90). [*New York*, 1889–91.] 8°. A

—— Commercial department, 1897/8. *Brooklyn*, 1897. 8°. A

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Bedford Dispensary Association. Annual report. [no. 6] (1886.) [*Brooklyn*, 1886.] 8°. A

Brooklyn Central Dispensary. Annual report. no. 18. (1874.) *New York*, 1874. 8°. A

Brooklyn City Hospital. *See* **Brooklyn** Hospital.

Brooklyn Diet Dispensary. Annual report. nos. 1–2, 10, 15, 17, 22–24 (1876–77, '85, '90, 92, 97–99). *New York*, 1877–1900. 12° and 8°. A

Brooklyn, Eastern District, Dispensary and Hospital. Annual report. nos. 3–4, 17, 24–25 (1853/4–54/5, '67, '75–'76). *New York*, 1854–'77. 8°.

Formerly Williamsburgh Dispensary.

Brooklyn Eclectic Dispensary. Annual report, 1895. [*Brooklyn*, 1895.] ob. 24°. A

Brooklyn Eye and Ear Hospital. Annual report. nos. 3–11, 14–32. (Jan. 1872–80, '83–1900.) *Brooklyn*, 1872–1901. 8°. A

—— Charter and by-laws. *Brooklyn*, 1878. 10 pp. 12°. A

Brooklyn Home for Consumptives. Dramatic entertainment by a volunteer selected corps of Brooklyn amateurs, . . . Mar. 5th, 1886. *New York* [1886]. 24 pp. sq. 24°. A

Brooklyn Homeopathic Dispensary. *See* **Brooklyn** Homeopathic Hospital.

Brooklyn Homeopathic Hospital. Annual report. 1869/70, '74, '76–'77, '85, '95. *New York*, 1870–'95. 8°. A

Formerly called Brooklyn Homeopathic Dispensary.

—— By-laws and regulations. *New York*, 1871. 24 pp., 1 l. 8°. A

Brooklyn Homœopathic Lying-in Asylum. *See* **Brooklyn** Maternity Hospital.

Brooklyn Homœopathic Maternity Hospital. *See* **Brooklyn** Maternity Hospital.

Brooklyn Hospital. Charter, by-laws, regulations, officers. *Brooklyn*, 1847. 24 pp., 1 l. 8°. A

—— Charter, by-laws and regulations. *Brooklyn*. 1852. 20 pp. 8°. A

—— Charter, by-laws and regulations. Also accounts and statistics for 1859. *Brooklyn*, 1860. 38 pp. 8°. A

—— Report of the Brooklyn hospital, Orthopedic dispensary, Low maternity, and the Training school for nurses for the year, 1848/9, '50–'52, '54, '58, '65, '67–'68, '70, '72, '74, '77, '84, '90, '92, '94–98. *Brooklyn*, 1849–'99. 8°, 4°. A

—— Address delivered at the laying of the corner stone, by F. A. Farley, D.D., and S. H. Cox, D.D., June 11, 1851. *Brooklyn*, 1851. 20 pp., 1 plan. 8°. A

—— Accounts and statistics for . . . 1856. *Brooklyn*, 1857. 8°. A

—— *Ladies' Aid Association*. Constitution and by-laws. [*Brooklyn*, 1874.] 2 l. 12°. A

—— *Training School for Nurses*. Annual report. nos. 1–5, 8–10. (1880/81–'84/85, 87/88–89/90.) *Brooklyn*, 1882–'90. 8°. A

—— Circular letter on behalf of the . . . school . . . [*Brooklyn*, 1872.] 6 pp. nar. 12°. A

Brooklyn Hospital, Saturday and Sunday Collection. *See* **Hospital** and Sunday Collection, Brooklyn.

Brooklyn Maternity Hospital. Annual report of the managers. nos. 1–6, 8, 12, 30. (1870/71–'76, '78, '82, 1900.) *Brooklyn*, 1871 [–1900]. 8°. A.

—— Constitution and by-laws. *New York* [1871?]. 12 pp. nar. 24°. A

Brooklyn Nursery. *See* **Brooklyn** Nursery and Infants' Hospital.

Brooklyn Nursery and Infants' Hospital. Annual report. nos. 3–5, 8, 17, 19, 24–28. (1873/74–'75/76, '78/79, '87/88, '89/90, '94/95–'99/1900.) *Brooklyn*, 1876–1900. 8°. A

Incorporated as "Flatbush Avenue Industrial School and Nursery," later, name changed to "Brooklyn Nursery," and in 1890, to above.

Flatbush Avenue Industrial School and Nursery. *See* **Brooklyn** Nursery and Infants' Hospital.

Hospital Saturday and Sunday Association. Annual Report. nos. 1–18. (1882–98/99.) [*New York*, 1882–99.] 16°. A

—— Annual appeal, no. 8. *Brooklyn*, 1889. 16°.

House of Saint Giles the Cripple. Annual report, no. 4. (1894/5.) *Brooklyn*, 1895. 24°. A

—— The munificent offer to the House of St. Giles the cripple . . . and the necessary endowment. Origin, work, wants, and future described . . . [*Brooklyn*, 1895.] 20 pp. 24°. A

Kings County Lunatic Asylum. Annual report of the resident physician, 1858/9, 59/60, 61/2, 63/4, 64/5, 66/7, 68/9–73/4. *Brooklyn*, 1859-74. 8°. A

Long Island College Hospital. Annual Announcement, nos. [12, 19,] 21–22, 27–29, 33, 39.

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(1870, '77/8, '79/80, '85/6–'87/8, '91/2, '97/8.) *Brooklyn*, 1869 [–97]. 8°. A

No. 12, called annual circular and catalogue. No. 21–33, called Announcement of the annual season. Some numbers published in New York.

—— Report for 1867, 1869, '70. *Brooklyn*, 1868–71. 8°. A

Report for 1870 printed in New York.

—— Charter and by-laws. *New York*, 1858. 32 pp. 8°. A

—— [Same.] *Brooklyn*, 1870. 13, 3–19 pp. 8°. A

Guild Report, Nov., 1898. *Brooklyn* [1899]. sq. 12°. A

Contains By-laws, lists of officers and members.

Long Island State Hospital. Annual report, no. 1–2. (1896–98.) *Albany*, 1897–99. 8°. A

Memorial Hospital for Women and Children. Memorial hospital tablet. vol. 1. no. 5. vol. 2. no. 1. (Aug. '97, Apr. '98.) *Brooklyn*, 1897–98. 8°. A

—— Annual report of the . . . hospital, the memorial training school for nurses, and the memorial dispensary. [1895.] *Brooklyn*, 1895. 8°. A

Methodist Episcopal Hospital. Annual report. nos. 1–3, 5–11. 1887/88–'89/90, 91/2–'97/8. [*Brooklyn*, 1888–98.] 8°. A

—— General instructions for the guidance of architects in preparing designs for the . . . hospital. [*Brooklyn*,] 1881. 7 pp. 8°. A

—— Rules and regulations of the . . . hospital . . . for the government . . . of the institution. *Brooklyn*, 1890. 24 pp. 8°. A

Training School for Nurses. Manual. [*Brooklyn*, 1880?] 12 pp. nar. 24°. A

Saint Catherine's Hospital. Annual report. no. 25. 1895. *New York*, 1896. 8°. A

In charge of the Sisters of St. Dominic.

Saint John's Hospital. The Heart's Ease. vol. 6. no. 1. (Jan. 1889.) *Brooklyn*, 1889. 4°. A

Sisters of St. Dominic. *See* **Saint** Catherine's Hospital.

Williamsburgh Dispensary. *See* **Brooklyn,** Eastern District, Dispensary and Hospital.

Woman's Dispensary and Hospital of the City of Brooklyn. Annual report. no. 1. (1881/2.) *Brooklyn*, 1883. 8°. A

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PRINCIPAL ACCESSIONS IN JANUARY.

DICTIONARIES, ENCYCLOPÆDIAS, ETC.

Allgemeines Künstler-lexicon. *Frankfurt a. M.*, 1895–1901. 5 v. 8°.

Brockhaus (F. A.) Brockhaus' Konversations-Lexikon. Bd. 5. *Leipzig*, 1901. 14. ed. 4°.

Encyclopædia medica. v. 9. *Edinburgh*, 1901. 4°.

Pauly (A. F. von). Pauly's Real-Encyclopädie der classischen Altertumswissenschaft. Bd. 4. *Stuttgart*, 1901. 8°.

BIOGRAPHY—GENEALOGY, ETC.

Armstrong (*Sir* W.) Sir Joshua Reynolds. *London*, 1900. f°.

Bell (M.) Rembrandt van Rijn. *London*, 1901. 8°.
(Great masters in painting and sculpture.)

Belloc (H.) Robespierre, a study. *New York*, 1901. 8°.

Bertin (G.) Madame de Lamballe. *New York*, 1901. 8°.

Bismarck-[Schoenhausen] (O. E. L. von), *Fürst.* Gedanken und Erinnerungen, Anhang. v. 1–2. *Stuttgart*, 1901. 8°.

Boardman (S. L.) Peter Edes: pioneer printer in Maine. *Bangor*, 1901. sq. 8°. (The De Burians.)
Gift of the author.

Creighton (M.), *D.D.* Memoir of Sir George Grey. *London*, 1901. 8°.

Ellicott (J. M.) The life of John Ancrum Winslow, rear-admiral, United States Navy. *New York*, 1902. 8°.
(Proudfit Collection.)

Ellis (C. H.) Genealogical record: the Bradfords, Fullers, and Ellises. *Fort Fairfield, Me.*, 1900. 8°.

Fawcett (*Mrs.* M. G.) Life of Sir William Molesworth. *London*, 1901. 8°.

Groser (H. G.) Lord Kitchener. The story of his life. *London*, 1901. 12°.

Heuberger (R.) Franz Schubert. *Berlin*, 1902. 4°. (Beruehmte Musiker Lebens-und Charakter bilder. Bd. 14.)

Kingsford (C. L.) Henry V., the typical mediæval hero. *New York*, 1901. 12°. (Heroes of the nations.)

Lennox (S.), *lady, afterwards Mrs. Napier.* The life and letters of Lady Sarah Lennox, 1745–1826. *London*, 1901. 8°.

O'Brien (R. B.) The life of Lord Russell of Killowen. *London*, 1901. 8°.

Reibnitz (P. von), *Freiherr.* Geschichte der Herren und Freiherren v. Reibnitz. *Berlin*, 1901. 4°.

Sanborn (F. B.) The personality of Thoreau. *Boston*, 1901. 4°.

Smith (C. F.) Mary Rich, Countess of Warwick (1625–1678): her family and friends. *London*, 1901. 8°.

Trotter (L. J.) A leader of light horse. Life of Hodson of Hodson's horse. *Edinburgh*, 1901. 8°.

Weisbach (W.) Francesco Pesellino. *Berlin*, 1901. f°.

NORTH AND SOUTH AMERICA. HISTORY—DESCRIPTION, ETC.

Bingham (H.), *jr.* Five straws gathered from Revolutionary fields. *Cambridge*, Mass., 1901. sq. 8°.

Blake (E. V.) History of the Tammany Society or Columbian Order. *New York*, 1901. 4°.

Calwer (R.) Die Meistbegünstigung der Vereinigten Staaten. *Berlin*, 1902. 8°.

Ficklen (J. R.) History and civil government of Lousiana. *Chicago*, 1901. 12°. (State government series, v. 8.)

Green (S. A.) Ten facsimile reproductions relating to Old Boston and neighborhood. *Boston*, 1901. f°.

Hart (A. B.) The foundations of American foreign policy with a working bibliography. *New York*, 1901. 12°.

Keane (A. H.) Central and South America. v. 2. *London*, 1901. 8°. (Stanford's compendium of geography and travel. New issue.)

Morris (J. K.) Morris's memorial history of Staten Island. 2 v. *New York*, 1900. 4°.

Mowry (W. A.), *and* **Mowry** (A. M.) A history of the United States for schools. *New York*, 1901. 8°.

Otis (J.) The story of old Falmouth. *New York*, 1901. 12°. (Pioneer towns of America.)

Quay (M. S.) Pennsylvania politics. Speeches. *Philadelphia*, 1901. 8°.

Sowell (A. J.) Early settlers and Indian fighters of Southwest Texas. *Austin, Texas*, 1900. 4°.

Townsend (J. D.) New York in bondage. *New York*, 1901. 8°.

Tweedie (*Mrs.* E. B. H.) Mexico as I saw it. *London*, 1901. 8°.

Whitbeck (R. H.) New York. *New York*, 1901. 12°. (Tarr and McMurry geographies, suppl. vol.)

EUROPE. DESCRIPTION—HISTORY (SOCIAL AND POLITICAL).

Bartens (A.) Die wirtschaftliche Entwicklung des Königreichs Würtemberg. *Frankfurt a. M.*, 1901. 8°.

Dawson (W. H.) German life in town and country. *New York*, 1901. 12°. (Our European neighbors.)

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Edwards (O.M.) Wales. *New York*, 1902. 8°.
(The story of the nations.)

Ianora (M.) Memorie storiche, critiche e diplomatiche della Città di Montepeloso (Oggi Irsina). *Matera*, 1901. 8°.

Lansdale (M. H.) Scotland historic and romantic. *Philadelphia*, 1902. 2 v. 8°.

Mackinder (H. J.) Britain and the British seas. *New York*, 1902. 8°.
(Appletons' world series.)

Melli (B.) La Colonia Eritrea. *Parma*, 1900. 2. ed. 8°.

Middleton (E.) The doomed Turk; the end of the "Eastern question." Ten essays. *New York*, 1900. 8°.
Gift of R. R. Bowker.

Story (A. T.) Swiss life in town and country. *New York*, 1902. 12°.
(Our European neighbours.)

Victoria (The) history of the counties of England. Cumberland. v. 1. *Westminster*, 1901. f°.

Visitation of England and Wales. v. 9. *n. p.*, 1901. 4°.

Zedlitz und Neukirch (O. von), *Freiherr*. Dreissig Jahre preussischer Finanz- und Steuerpolitik. *Berlin*, 1901. 8°.

Russia, Korea, etc.

Гриченко (Б. Д.) **Литература Украинскаго Фольклора.** 1777–1900. *Chernigov*, 1901.
(Literature of the Folklore of the Ukraina.)

Encyklopedja Powszechna (Polish Encyclopædia publ. by S. Orgelbrand). Vols. IX.–X. *Warsaw*, 1901.

Историческое Обозрѣніе. Сборникъ изд. подъ ред. Н. И. Карѣева. Vov. X. *St. Petersburg*, 1899.
(Historical Review, edited by N. Karyeyev.)

Новое Дѣло, (new weekly, continuation of „Недѣля")

35 **Пѣсенъ Русскаго Народа,** для одного голоса, собраны С. Ляпуновымъ и Ѳ. Истоминымъ, переложилъ С. Ляпуновъ. *St. Petersburg: Imp. Russian Geographical Society*, 1901.

35 **Пѣсенъ Русскаго Народа** для одного голоса, собраны И. Некрасовымъ и Ѳ. Истоминымъ, переложилъ А. Лядовъ. *St. Petersburg: Imp. Russian Geographical Society*, 1901.

50 **Русскихъ Народныхъ Пѣсенъ** для употребленія въ учебныхъ заведеніяхъ, переложены А. Петровымъ. *St. Petersburg: Imp. Russian Geographical Society*, 1901.

50 **Пѣсенъ Русскаго Народа** для мужскаго хора, собраны И. Некрасовымъ и Ѳ. Истоминымъ, положено на голоса И. Некрасовымъ. *St. Petersburg: Imp. Russian Geographical Society*, 1901.
Russian folk-songs, four parts, published by the Imp. Russian Geographical Society.

Africa—Asia, and the Pacific Islands.

Description—History.

Belck (W.) Beiträge zur alten Geographie und Geschichte Vorderasiens. Heft 1. *Leipzig*, 1901. 8°.

Gray (J. A.) At the court of the Amîr. *London*, 1901. 12°.

Hawkins (H. G.) Twenty months in Japan. *Nashville*, 1901. 12°.
Gift of R. R Bowker.

Hesse-Wartegg (E. von). Samoa, Bismarckarchipel und Neuguinea. *Leipzig*, 1902. 4°.

Sastrón (M.) La Insurrección en Filipinas y guerra hispano-americana en el archipiélago. *Madrid*, 1901. 4°.

Schoeller (M.) Mitteilungen über meine Reise nach Äquatorial-Ost-Afrika und Uganda, 1896–1897. *Berlin*, 1901. 2 v. 4°.

Wegener (G.) Zur Kriegszeit durch China, 1900-1901. *Berlin*, 1902. 8°.

Travel.

Burton (*Sir* R. F.) Wanderings in three continents. *London*, 1901. 8°.

Archæology—Folk-Lore.

Cushing (F. H.) Zuñi folk tales. *New York*, 1901. 8°.

Ward (J.) The sacred beetle, Egyptian scarabs in art and history. *London*, 1902. 8°.

Art—Music—Architecture.

Atkins (J.), *D.D., and* **Kirkpatrick** (W. J.) The young people's hymnal, no. 2. *Nashville, Tenn.*, 1901. 8°.
Gift of R. R. Bowker.

Catholic (The) boy-choir manual. *New York, cop.* 1901. 8°.
Gift of R. R. Bowker.

Guédy (H.) Dictionnaire d'architecture. *Paris*, 1902. 12°.

Gurlitt (C.) Geschichte der Kunst. *Stuttgart*, 1902. 2 v. 4°.

Jenaer (Die) Liederhandschrift. *Leipzig*, 1901. 2 v. f°.

Junior praises, edited by J. M. Black. *Cincinnati*, 1901. 8°.
Gift of R. R. Bowker.

Redman (H. N.) A pronouncing dictionary of musical terms. *Boston*, 1901. 16°.

Reitschel (G.) Weihnachten. *Bielefeld*, 1902. 4°.
(Sammlung illustrierter Monographien, Bd. 5.)

Unseld (B. C.) Illustrative lessons, being the teacher's guide to the choral standard. *Cincinnati*, 1901. 12°.
Gift of R. R. Bowker.

Whiting (C. E.) Public school music course. *Boston*, 1901. 8°.
Gift of R. R. Bowker.

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LITERATURE.

Bagot (R.) Casting of nets. *London*, 1901. 12°.
Gift of H. T. Coates & Co.

Beecher (M. H.) No trespassing and other verses. *New York*, 1901. 12°.
Gift of R. R. Bowker.

Blochet (E.) Les sources orientales de la divine comédie. *Paris*, 1901. 16°.
(Les littératures populaires, t. 41.)

Brooks (F.) The destiny and other poems. *Boston*, 1901. 12°.
Gift of R. R. Bowker.

Cheney (W.) The flight of Helen and other poems. *San Francisco*, 1901. 12°.
Gift of R. R. Bowker.

Clark (W. A.) Intellectual people. A poem. *New York*, 1900. 4. ed. 12°.
Gift of R. R. Bowker.

Dawson (M. M.) Poems of the new time. *New York*, 1901. 16°.
Gift of R. R. Bowker.

Doubleday (S.) At the temple gates. *New York*, 1901. 8°.
Gift of R. R. Bowker.

Dunne (F. P.) Mr. Dooley's opinions. *New York*, 1901. 12°.

Edwards (S.) Jewels of paste. *New York*, 1901. 12°.
Gift of R. R. Bowker.

Fleming (W. H.) Shakespeare's plots, a study in dramatic construction. *New York*, 1902. 8°.

Gallup (E. W.) The tragedy of Anne Boleyn. A drama in cipher found in the works of Sir Francis Bacon. *Detroit., Mich.*, 1901. 8°.

Gauss (H. C.) Floyd Ireson. *Salem, Mass.*, 1901. 12°.
Gift of R. R. Bowker.

Hartt (*Mrs.* I. W.) On the Charleston. *New York*, 1900. 8°.
Gift of R. R. Bowker.

Hills (E. C.) Bardos cubanos; antología de las mejores poesías líricas de Heredia [and others]. *Boston*, 1901. 12°.
Gift of R. R. Bowker.

Holt-Lomax (R. H.) A moment's mistake. *New York*, 1901. 8°.
Gift of R. R. Bowker.

Jones (H. A.) The liars. *New York*, 1901. 16°.

Kaven (E. T.) From clouds to sunshine; or, The evolution of a soul. *New York*, 1901. 8°.
Gift of R. R. Bowker.

King Horn; a Middle-English romance, edited by J. Wall. *Oxford*, 1901. 8°.

Lemcke (E. E.) Creation, re-creation. *Orange, N. J.*, 1901. 12°.
Gift of the author.

Lindsay (C. M.) Cavalier poets. *New York*, 1901. 12°.
Gift of R. R. Bowker.

Lippincott (M. S.) Visions of life. *New York* [1901]. 8°.
Gift of R. R. Bowker.

Loring (M. B.) The stranger: [poems]. *New York*, 1901. 8°.
Gift of R. R. Bowker.

Love (M. B.) Tom Huston's transformation. *New York*, 1900. 12°.
Gift of R. R. Bowker.

Mac Kellar (T.) Hymns and later poems. *New York*, 1900. 12°.
Gift of R. R. Bowker.

Macleod (F.) From the hills of dream. *Portland, Me.*, 1901. nar. 12°.
Old World series.

Madison (J.), *4. president of the U. S.* The writings of J. Madison. Edited by G. Hunt. v. 2. *New York*, 1901. 8°.

Martin (A.) A feather's weight; a story of mystery. *New York*, 1900. 2 ed. 12°.
Gift of R. R. Bowker.

Mason (F. E.) Daddy Gander. *New York*, 1900. sq. 4°.
Gift of the Publishers.

Mazzoni (E.) I ritmi del popolo livornese. *Livorno*, 1901. 16°.

Meynell (A.) Later poems. *London*, 1902. 12°.

Morris (*Mrs.* I. D.) The travels of a barnacle. *New York*, 1901. 8°.
Gift of R. R. Bowker.

Nichols (L. A.) Delphine, and other poems. *San Francisco*, 1901. 12°.
Gift of R. R. Bowker.

Olds (C. L.) Wood-pile recollections. *New York* [1901]. 8°.
Gift of R. R. Bowker.

Olmis (E.) The Sylvester Quarry: a sequel to "Over at Little Acorns." *Richmond, Va.* [1901]. 12°.
Gift of R. R. Bowker.

O'Neill (M.) The elf-errant. *London*, 1902. 12°.

Prune (N.) Wedding bells, and other sketches. *New York*, 1901. 8°.
Gift of R. R. Bowker.

Ripley (N. B.) Cordelia, and other poems. *New York*, 1901. 8°.
Gift of R. R. Bowker.

Russell (C. E.) Such stuff as dreams. *Indianapolis*, 1901. 8°.

Stokes (W.), *and* **Strachan** (J.) Thesaurus Palæohibernicus; a collection of Old-Irish glosses, scholia prose and verse. v. 1. *Cambridge*, 1901. 4°.

Streeter (O. W.) A dream of life in other worlds. *Boston*, 1901. 8°.

Temple (G. H.) The epic of Columbus' bell, and other poems. *Reading, Pa.*, 1900. 12°.
Gift of R. R. Bowker.

Valentine (E. U.) The ship of silence, & other poems. *Indianapolis*, 1901. 8°.

Valentine (J.) Jonas Brand; or, Living within the law. *New York*, 1901. 2. ed. 8°.
Gift of R. R. Bowker.

Villars (I.), *D.D.* Ministerial misfit; or, The biography of Rev. Timothy Tanglefoot. *Springfield, Ill.*, 1901. 8°.
Gift of R. R. Bowker.

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Wells (H. G.) Anticipations of the reaction of mechanical and scientific progress upon human life and thought. *London*, 1902. 12°.

Williams (W. O.) An old dusty's story. *New York*, 1901. 8°.
Gift of R. R. Bowker.

Young (D. F.) Thoughts in verse. *New York*, 1901. 8°.
Gift of R. R. Bowker.

Economics and Finance—Law—Political Economy, etc.

American and English railroad cases. v. 22 [with Index to vols. 11–20]. *Charlottesville*, 1901. 2 v. 8°.

Bolles (J. A.) Under reckless rule; a practical study of extravagant government and taxation. *New York* [1901]. 12°.
Gift of R. R. Bowker.

Bryce (J.) Studies in history and jurisprudence. *New York*, 1901. 8°.

De Graff (L.) Outlines and questions on the principles of economics. *Chicago*, 1901. 12°.
Gift of R. R. Bowker.

Holland (B.) Imperium et libertas; a study in history and politics. *London*, 1901. 8°.

Nicholson (J. S.) Principles of political economy. v. 3. *London*, 1901. 8°.

Nina (L.) La riforma tributaria. *Torino*, 1901. 8°.

Schippel (M.) Grundzüge der Handelspolitik, zur Orientierung in den wirtschaftlichen Kämpfen. *Berlin*, 1902. 8°.

Schwarz (O.), *and* **Struts** (G.) Der Staatshaushalt und die Finanzen Preussens. Bd. 1, Lief. 3. *Berlin*, 1901. 4°.

Sociology—Vital Statistics—Labor, etc.

Abbott (*Rev.* L.) The rights of man; twentieth century problems. *Boston*, 1901. 12°.

Casson (H. N.) Organized self help; a history and defence of the labor movement. *New York*, 1901. 12°.
Gift of R. R. Bowker.

Cumming (A. N.) Public-house reform. *London*, 1901. 12°.
(Social science series.)

Grabowsky (N.) Der Weg zur Geistesvervollkommnung auf Grundlage der Emanzipation des Mannes vom Weibe. *Leipzig*, 1902. 8°.

Maulde la Clavière ([M. A.] R. de). The art of life. *New York*, 1902. 12°.

Westergaard (H.) Die Lehre von der Mortalität und Morbilität. *Jena*, 1901. 4°.

Cremation.

Cobb (J. S.) A quarter century of cremation in North America. *Boston*, 1901. 12°.

Commerce and Trade—Railroads—Fire Departments.

Adgie (W.) Modern book-keeping and accounts. Pt. 1. *London*, 1901. 1 v. 12°.
(Hooper and Graham's series.)

Hand-book of railroad securities, January, 1902. *New York*, 1902. 32°.
Gift of Ladd, Wood & King.

Jecklin (F.), *and* **Sprecher** (F.) Das Churer Feuerwehrwesen. *Chur*, 1901. 8°.

Jennings (E. B.) Democracy and the trusts. Address. *New York* [1900]. 12°.
Gift of R. R. Bowker.

Pangbourne (*Major*), *pseud. of* J. G. Pangborn (?). Side lights on management; world systems railways. *Baltimore*, 1901. 12°.

Reinhold (K. T.) Der Weg des Geistes in den Gewerben. *Leipzig*, 1901. 8°.

Wage (A) calculator, at rates from $1.00 to $25.00 per week. *Shamokin, Pa.*, 1901. sq. 12°.
Gift of R. R. Bowker.

Wilgus (H. L.) A study of the United States steel corporation in its industrial and legal aspects. *Chicago*, 1901. 8°.

Education. Text-books—Bookbinding, and Care of Books.

Brittain (M. L.) Introduction to Caesar. *New York*, 1901. 12°.
Gift of R. R. Bowker.

Clark (J. W.) The care of books: an essay on the development of libraries. *Cambridge, Eng.*, 1901. 4°.

Cockerell (D.) Bookbinding and the care of books. *London*, 1901. 12°. (Artistic crafts series of technical handbooks. no. 1.)

Haliburton (M. W.), *and* **Norvell** (F. T.) Graded Classics. Reader no. 1. *Richmond*, 1901. 12°.
Gift of R. R. Bowker.

Ives (M. J.), *and* **Halloway** (C. M.) The Ives first book. *New York*, 1900. 12°.
Gift of R. R. Bowker.

Murphy (D. C.) Turning points in teaching; or, Law making and breaking in the schoolroom. *Chicago*, 1901. 12°.
Gift of R. R. Bowker.

Ware (F.) Educational foundations of trade and industry. *New York*, 1901. 12°.
(International education series, v. 54.)

Mathematics—Physics—Astronomy—Hygiene, etc.

Ahrens (W.) Mathematische Unterhaltungen und Spiele. *Leipzig*, 1901. 8°.

Ball (*Sir* R. S.) The earth's beginning. *London*, 1901. 12°.

Bell (V. C.) Our teeth and how to take care of them. *New York*, 1900. 12°.
(Young American library series, no. 1.) Gift of R. R. Bowker.

Griffiths (E. H.) The thermal measurement of energy. Lectures. *Cambridge*, 1901. 12°.

Jackson (S.) The metric system in theory and practice. *London*, 1900. 12°.
Gift of the Decimal Association.

Kelsey (W. R.) Physical determinations. *London* [1901]. 12°.

Klein (F.), *and* **Riecke** (E.) Ueber angewandte Mathematik und Physik. *Leipzig*, 1900. 4°.

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Klein (F.) Über die Neueinrichtungen für Electrotechnik und allgemeine technische Physik an der Universität Göttingen. *Leipzig*, 1900. 8°.

Liebmann (H.) Lehrbuch der Differentialgleichungen. *Leipzig*, 1901. 8°.

Ratzel (F.) Die Erde und das Leben. *Leipzig*, 1901. 4°.

Zoology — Geology — Anthropology, etc.

Bradford (C.) The wild fowlers. *New York*, 1901. 12°.

Licò (N.) Protezione degli animali. *Milano*, 1902. 16°.
Gift of the Evening Post. (Manuali Hoepli.)

Maeterlinck (M.) The life of the bee. *London*, 1901. 4. ed. 12°.

Sarasin (P.), *and* **Sarasin** (F.) Materialien zur Naturgeschichte der Insel Celebes. v. 4. *Wiesbaden*, 1901. f°.

Sokolowsky (A.) Menschenkunde. Eine Naturgeschichte sämtlicher Völkerrassen der Erde. *Stuttgart*, 1901. 8°.

Troughton (F. J.) A classified list of minerals, precious and other stones. *New York*, 1901. 12°.
Gift of R. R. Bowker.

Zittel (K. A. von). History of geology and palæontology to the end of the nineteenth century. *London*, 1901. 12°.
(Contemporary science series.)

Applied Science and Useful Arts.

Baker (M. N.) Municipal engineering and sanitation. *New York*, 1902. 12°.
(The citizen's library of economics, politics and sociology.)

Berghof (A.) Die organischen Farbstoffe. *Wien*, 1902. 12°.
(Hartleben's chemisch-technische Bibliothek. Bd. 254.)

Bode (W.) Vorderasiatische Knüpfteppische aus älterer Zeit. *Leipzig*. 1901. 4°.
(Monographien des Kunstgewerbes.)

Bottler (M.) Die animalischen Faserstoffe. *Wien*, 1902. 12°.
(Hartleben's chemisch-technische Bibliothek. Bd. 253.)

Bramwell (C. C.) The construction of a gasoline motor vehicle. *New York*, 1901. 8°.

Cripps (W. J.) Old English plate. *London*, 1901. 4°.

Gruner (A.) Theorie der Schaft- und Jacquardgewebe. *Wien*, 1902. 8°.

Hann (J.) Lehrbuch der Meteorologie. *Leipzig*, 1901. 4°.

Haslock (P. N.) Tailoring. *London*, 1901. nar. 12°.
("Work" handbooks.)

Hiscox (G. D.) Compressed air. *New York*, 1901. 8°.

Keep (W. J.) Cast iron; a record of original research. *New York*, 1902. 8°.

Martin (H.) Production et distribution de l'énergie pour la traction électrique. *Paris*, 1902. 8°.

Moore (H. C.) Omnibuses and cabs. *London*, 1902. 8°.

Noebels (J.), **Schluckebier** (A.), *and* **Jentsch** (O.) Telegraphie und Telephonie. *Leipzig*, 1901. 4°.
(Handbuch der Elektrotechnik. Bd. 12.)

Pazaurek (G. E.) Moderne Gläser. *Leipzig*, 1901. 4°.
(Monographien des Kunstgewerbes.)

Robertson (L. S.) Water-tube boilers. *London*, 1901. 8°.

Schulte (K.) Lexikon der Uhrmacherkunst. *Berlin*, 1901. 8°.

Sutcliffe (G. L.) Sanitary fittings and plumbing. *London*, 1901. 12°.
("The Builder" student's series.)

Tunzellmann (G. W. de). Wireless Telegraphy. *London*, 1901. 12°.

Ziegler (F.) Systematische Anleitung zur einheitlichen Ausgestaltung von Weichenverbindungen. Theil 1. *Erfurt*, 1901. 6 pts. 8°.

Bible and Biblical Literature—Religious History and Literature—Sermons, etc., etc.

Axtell (J. W.) The organized Sunday school. *Nashville, Tenn.*, 1901. 12°.
Gift of R. R. Bowker

Beecher (*Rev.* H. W.) Comforting thoughts spoken in sermons, &c. *New York*, 1901. 12°.
Gift of R. R. Bowker.

Bible. The Cambridge Bible for Schools and Colleges. The Book of Psalms, with introduction and notes, by A. F. Kirkpatrick, D.D. Bks. 4–5. Psalms 90–150. *Cambridge*, 1901. 1 v. 16°.

Bible. *Old Testament: Job.* Das Buch Hiob, neu übersetzt von F. Delitzsch. *Leipzig*, 1902. 12°.
Gift of J. H. Schiff.

Biblical and Semitic studies. *New York*, 1901. 8°.
(Yale bicentennial publications.)

Boteler (M. M.) Side windows; or, Lights on scripture truths. *Cincinnati*, 1901. 12°.
Gift of R. R. Bowker.

D'Arcy (C. F.), *D.D.* Ruling ideas of our Lord. *New York*, 1901. 12°.
(Christian study manuals.)
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Dickson (S. O'H.) Grandma Bright's Q. P's. *Richmond, Va.*, 1901. 12°.
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Groot (J. J. M. de). The religious systems of China. v. 4. *Leyden*, 1901. 4°.

Hawley (J. S.) Fearless Bible reading. *New York*, 1901. 2. ed. 8°.
Gift of R. R. Bowker.

Holtzmann (O.) Die jüdische Schriftgelehrsamkeit zur Zeit Jesu. *Giessen*, 1901. 12°.
(Vorträge der theologischen Konferenz zu Giessen. Folge 17.) Gift of J. H. Schiff.

Johnson (A. A.), *D.D.* Steps to Salvation. *Cincinnati*, 1901. 24°.
(Little books on doctrine.)
Gift of R. R. Bowker.

Jordan (M. O.) God's smiles and a look into His face. *New York*, 1901. 12°.
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King (*Rev.* G. W.) The Moral Universe. *New York*, 1901. 12°.
Gift of R. R. Bowker.

Laud (W.), *archbp. of Canterbury.* A relation of the conference between W. Laud and Mr. Fisher, the Jesuit. *London*, 1901. 8°.
(English theological library.)

McGiffert (A. C.) The Apostles' creed, a lecture. *New York*, 1902. 8°.

Mahood ([*Rev.*] J. W.) The art of soul winning. *Cincinnati*, 1901. 24°.
(Little books on practice.)
Gift of R. R. Bowker.

Mallalieu (W. F.), *bp.* The why, when, and how of revivals. *New York*, 1901. 12°.
Gift of R. R. Bowker.

Marschner (H.) From death to life. *New York*, 1901. 8°.
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Merrill (S. M.) Sanctification, right views and other views. *Cincinnati*, 1901. 24°.
(Little book on doctrine.)
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Nelson (W. H.), *D.D.* A walk with Jesus. *Cincinnati*, 1901. 8°.
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Pearse (M. G.) The Christianity of Jesus Christ: is it ours? *Cincinnati* [1900?]. 24°.
(Little books on devotion.) Gift of R. R. Bowker.

Preston (*Rev.* S. G.) Key-words and phrases of the New Testament. *New York*, 1900. 8°.
Gift of R. R. Bowker.

Politzer (A. P.) The Rabbi of Liszka. *New York*, 1901. 16°.
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Speer (R. E.) Presbyterian foreign missions. *Philadelphia*, 1901. 12°.
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Philosophy — Ethics — Psychology — Ethnology, etc.

Barton (G. A.) A sketch of Semitic origins, social and religious. *New York*, 1902. 8°.
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Brinton (D. G.) The base of social relations, a study in ethnic psychology. *New York*, 1902. 8°.

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Reinstadler (S.) Elementa philosophiæ scholasticæ. v. 2. *Friburgi Brisgoviæ*, 1901. 12°.

Ritschl (O.) Die Causalbetrachtung in den Geisteswissenschaften. *Bonn*, 1901. 12°.

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Weltmer (S. A.) Self-reliance, the key to business success. *Kansas City*, 1900. 12°.
Gift of the author.

Philology.

Crow (F. E.) Arabic manual. Handbook containing a grammar and dialogues. *London*, 1901. 12°.
(Luzac's oriental grammars series, no. 4.)

Kanga (K. E.) A complete dictionary of the Avesta language, in Guzerati and English. *Bombay*, 1900. 4°.
(Ardeshir Sorabjee Dustoor Kamdin's prize essay.)

Mauthner (F.) Beiträge zu einer Kritik der Sprache. Bd. 2. *Stuttgart*, 1901. 8°.

Rosenberg (J.) Lehrbuch der samaritanischen Sprache und Literatur. *Wien*, 1901. 16°.
(Die Kunst der Polyglottie, Theil. 71.)

Spat (C.) Maleische taal. Stuk 1. *Breda*, 1900. 8°.

Sports and Recreations. Hunting — Yachting, etc.

Becker (M. L.) Der Tanz. *Leipzig*, 1901. 4°.

Cook (T. A.), **Hill** (McM.), *and others.* Ice sports. *London*, 1901. 12°.
(Isthmian Library.)

Maximilian I., *emperor of Germany.* Das Jagdbuch Kaiser Maximilians I. Hrsg. von M. Mayr. *Innsbruck*, 1901. F°.
Gift of J. L. Cadwalader.

Patterson (H.) Yacht sails and how to handle them. *New York*, 1901. sq. 16°.
(Patterson's pocket yachting series.)

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VOLUME VI · NUMBER 3
MARCH 1902

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VOL. VI. APRIL, 1902. No. 4.

REPORT FOR MARCH.

REFERENCE DEPARTMENT.

During the month of March there were received at the Library, by purchase, 2,340 volumes and 1,475 pamphlets; by gift, 4,542 volumes, 5,836 pamphlets, 48 maps, and 207 prints; and by exchange, 105 volumes and 5,416 pamphlets.

There were catalogued 6,219 volumes and 2,512 pamphlets, for which purpose 7,806 cards and 341 slips were written for the printer, and 3,654 slips were written for, and 14,717 cards were received from, the copying machine.

The following table shows the number of readers, and the number of volumes consulted, in both the Astor and Lenox Branches of the Library, also the number of visitors to the Print Department at the Lenox, during the month:

	LENOX.	ASTOR.
No. of readers and visitors	5,869	10,858
No. of readers	3,091	10,858
No. of readers, desk applicants	1,472	9,733
No. of volumes consulted by desk applicants	6,488	31,903
Daily average of readers	119	418
Number of visitors to Print Exhibit, etc.	3,700	

CIRCULATION DEPARTMENT.

The most popular books for the month were (in non-fiction): Riis's "Making of an American," Evans's "A Sailor's Log," and Baldwin's "Old Stories of the East;" (adult fiction) Parker's "Right of Way," Johnston's "Audrey," and Wharton's "Valley of Decision;" (juvenile fiction) Baldwin's "Fifty Famous Stories Retold," Lang's "Blue Fairy Book," and De Foe's "Robinson Crusoe."

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CIRCULATION STATISTICS.

BRANCHES.	CIRCULATION.		NEW REGISTRATIONS.	READERS IN READING ROOM.		VOLUMES ACCESSIONED.
	HOME USE.	TOTAL.		MINORS.	TOTAL.	
Bond Street	11,951	12,514	225	1,237	4,459	186
Ottendorfer	19,235	20,373	337	2,028	4,280	160
George Bruce	13,361	16,154	212	1,959	2,793	150
Jackson Square	12,722	13,843	171	537	2,738	115
Harlem	12,672	13,684	235	1,189	2,143	80
Muhlenberg	10,634	12,937	173	1,119	2,303	102
Bloomingdale	17,860	19,270	263	1,719	3,026	107
Riverside	1,189	1,561	24	539	899	60
Yorkville	17,455	18,526	269	691	1,071	274
Thirty-fourth Street	5,915	8,020	100	1,455	2,105	142
Chatham Square	17,169	17,936	315	691	767	125
St. Agnes	14,295	15,884	203	912	2,928	264
Washington Heights	9,393	10,472	136	3,166	5,509	171
Travelling	23,543	23,543				577
	187,394	204,717	2,663	17,242	35,021	2,513

The more important gifts of the month were:—From Mr. Frederic Amory, two privately printed volumes of family history, one of the Greene family and the other of Hugh Amory and his descendants; from Mr. S. P. Avery, 17 volumes, 1 pamphlet, 192 prints, and 2 portfolios of reproductions of drawings by Rembrandt van Rijn; from the Chamber of Commerce of Boulogne-sur-Mer, publications of the Chamber, 15 volumes, 16 pamphlets, and 1 map; from the Bunker Hill Monument Association, 2 volumes and 6 pamphlets, proceedings, etc.; from the Century Association, 431 volumes and 1,291 pamphlets, chiefly magazines; from the Earl of Crawford, no. 29 of 100 copies printed of "Collations and Notes," no. 6, collating the Bulletin de l'Assemblee and Convention Nationale, 22 Sept., 1792–4 brumaire an IV. (26 Oct., 1795); from Mrs. Henry Draper, a collection of English and American Literary Annuals, amounting to 400 volumes, also 66 volumes and 18 pamphlets; from Stuyvesant Fish, 3 of his Addresses; from the Fitchburg Railroad Company, 9 of their Annual Reports; from Worthington C. Ford a reprint of the "Journals of the House of Representatives of His Majesty's Province of Massachusetts-Bay, 1715," edited by himself; from Frederick Trevor Hill, 2 copies of his "Care of Estates;" from Louis Leblois, a copy of "Les Bibles et les Initiateurs Religieux de l'Humanité," 7 volumes; from Alexander Maitland, 11 Broadsides relating to New York City during the period of the Civil War; from J. Pierpont Morgan, a signed copy of the "Catalogue of a Collection of Books formed by James Toovey," owned by Mr. Morgan; from Fordham Morris, 388 volumes and 96 pamphlets, including Journals of the Royal Agricultural Society, Coate's Herd Book, Transactions of the New York State Agricultural Society, etc.; from Prince Golitzin, Mayor of Moscow, 10 volumes and 8 pamphlets

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of City documents; from the New York State Colonization Society, 114 volumes and 8 pamphlets; from Mrs. Anna P. Pruyn, "Memoirs of an American Lady, etc," by Mrs. Anne Grant, with a Memoir of Mrs. Grant by James Grant Wilson; from Mrs. Simon Sterne, 2,375 volumes and 2,442 pamphlets from the library of the late Simon Sterne, a valuable and interesting collection of works on economics, economical and political history, statistics, finance, legislation, labor, etc., including numerous works on the economics, finance and jurisprudence of American and foreign railroads, and periodicals and official reports relating thereto.

The exhibition of lithographs by Fantin-Latour at the Lenox Branch has been partially replaced by an exhibition of Dante Gabriel Rossetti prints. At the Astor Branch some of the Fantin-Latour lithographs have been put in place of the "Paris Exposition" plates.

The exhibitions at the circulation branches have been as follows: For February—Bond Street, Danish West Indies, Lincoln, McKinley, Washington; Ottendorfer, Opera, New books, Dante, Prince Henry, Victor Hugo, Interesting books for children, Lincoln, Washington, Some royal sailors; George Bruce, Washington, Lincoln; Harlem, Germany; Muhlenberg, Washington, Lincoln; Bloomingdale, American history, College stories, Washington, Lincoln, Rambles in Germany; Riverside, New books; Yorkville, Washington, Lincoln, Longfellow; Thirty-fourth Street, Washington, Lincoln; Chatham Square, Opera, Drama, Prince Henry, Washington, Franklin, Morse; St. Agnes, Madonnas, English authors, American authors, Lincoln, Washington, St. Valentine's Day; Washington Heights, Washington, Lincoln, Old favorites (fiction).

For March they were as follows: Bond Street, Birds; Ottendorfer, Goethe, Music and musicians, New books, Russian books, Picturesque America, Foreign travel, Indians of America, Morocco, Edward Everett Hale, Cecil Rhodes, Panama canal, Good books for children, Spring; George Bruce, Easter; Jackson Square, Easter; Harlem, Cecil Rhodes, Pirates; Bloomingdale, Books for primary grades, Mechanic trades, Electricity; Thirty-fourth Street, Birds; Chatham Square, Charles Dickens, Napoleon, China, Birds; St. Agnes, Easter, People and books being talked about, Edward Everett Hale.

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CHARLES DICKENS TO L. GAYLORD CLARK ON MARTIN CHUZZLEWIT, IN 1843.

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Second March 1843

MY DEAR CLARK

Let us lay a wager upon that copyright business. What impossible odds shall I set against some piece of property of yours, that we shall be in our graves and out of them again in particles of dust, impalpable, before those honest men at Washington, in their earthly riots, care one miserable damn for Mind?

You will not take it ill when I tell you that the last-sent Nicks* remain uncut. When I resolved on shipboard coming home, to write upon America, I solemnly determined with myself that I would never read an American criticism on the book. Innumerable newspapers have been sent to me across the Atlantic since its publication. If there were anything to pay, they have gone back to the Post Office; if nothing, they have gone, unopened, into the fire.

I have never once departed from my resolution in the least degree. And I feel the wisdom of it, in my good spirits and good humour.

I don't think you will like Chuzzlewit less, as it goes on. I particularly commend Mr Pinch, and a sister of his who will one day appear upon the scene, to your favorable consideration.

Ah! That unfulfilled promise! If I ever have a scene of Chuzzlewit written early enough to send to you—but I will not lay down any more pieces of stone in the Infernal Pavement. Nous verrons.

Mrs Dickens sends her best regards to yourself and Mrs Clark; in which I cordially join.—Last Thursday twelvemonth, we dined at your house.

Always faithfully yours
CHARLES DICKENS.

L. GAYLORD CLARK Esquire.

[Addressed:] By Mail Steamer.
L. Gaylord Clark Esquire
New York
United States.

* Knickerbocker Magazine, of which Clark was editor.

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A LIST OF WORKS IN THE NEW YORK PUBLIC LIBRARY RELATING TO PRICES.

*** All works listed below are in the Astor branch unless otherwise stated. This list includes most of the important articles on the subject, but it is by no means exhaustive. The student should also consult Poole's *Index* for other magazine articles; the Belgian, British, French, consular reports, and the various official gazettes (such as *The London Gazette*), statistical abstracts, and trade journals. A list of statistical periodicals in the library was printed in the *Bulletin* for March, 1900, volume 4, number 3; and of technical and industrial periodicals in the same, November and December, 1898, volume 2, numbers 11 and 12. Reference should be made also to the Index Catalogue in the reading-room under the related headings of wages, corn laws, money, value, etc., etc., and to the lists on these subjects in following numbers of the *Bulletin*.

The arrangement is chronological, under the following main groups:

I. History and statistics (general and regional) ..... pp. 115 to 126
Index numbers ..... pp. 126 to 129
Money and prices ..... pp. 129 to 132
Regulation of prices ..... p. 132
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Trusts and prices ..... p. 133
II. Prices of various articles (alphabetical by names of articles, with chronological subarrangements by countries) ..... pp. 133 to 159

History and Statistics.

General.

Falkner (R. P.) Theory and practice of statistics of price. (American Statistical Association. Proceedings. v. 3, pp. 119–140. *Boston*, 1892. 8°.)

Brämer (K.) Zur Theorie und Praxis der internationalen Preisstatistik. (Zeitschr. Preuss. Stat. 18. Jahrg., 1878, pp. 95–131. *Berlin*, 1878. 8°.)

Ancient.

Salluzzi (Paolina). Sui prezzi in Egitto nell' etá tolemaica. (Rivista di storia antica. n. s. anno 6, pp. 9–57. *Messina*, 1901.)

Friedländer (L.) Ueber den Kornpreis und den Sachwerth des Geldes in der zeit von Nero bis Trajan. (Jahrbücher für Nationalökonomie und Statistik. v. 12, pp. 306–308. *Jena*, 1869. 8°.)

Edict (An) of Diocletian, fixing a maximum of prices throughout the Roman Empire. A. D. 303. [Edited by W. M. Leake.] *London: John Murray*, 1826. 42 pp. 8°.

Michaelis (H.) Kritische Würdigung der Preise des edictum Diocletiani von nationalökonomischen standpunkte aus. (Zeitschrift für die gesammte Staatswissenschaft. v. 53, pp. 1–50. *Tübingen*, 1897. 8°.)

Modern.

[**Prices** of grain, agricultural produce, meat, provisions, merchandise, etc., in foreign countries, 1831–1851.] (In: Tables of revenue, population and commerce of the United Kingdom . . . 1833–1854, pt. 3–9, and in supp. to same, pt. 12, 14, 18.)

—— Same, 1851–59. (In: Statistical tables relating to foreign countries, 1855–1861. pt. 1–7.)

Great Britain.—*Foreign Office.* Agriculture . . . Instructions addressed to, and . . . reports received from, His Majesty's consuls abroad, with respect to . . . agriculture, and the condition of the population, within the districts of their consulates, 1833–1835. [The average price of meat and other articles of food, the wages of labourers and the price of articles of clothing worn by them.] [*London*, 1836.] 170 pp. F°. (Great Britain. Parl. Papers. Sess. 1836, (84), v. 47.)

Movement of prices, 1840–94, Sauerbeck, London Economist, U. S. Senate tables. *Washington*, 1895. 22 pp. 1 pl. 4°. (U. S. Statistics Bureau.)

Great Britain.—*Foreign Office.* Abstract of reports on the trade of various countries and places . . . 1855–1856 . . . from Her Majesty's ministers and consuls. [Prices of grain, cotton, provisions, woollen yarn, calico, etc.] [*London*,] 1857. iv, 135 pp. F°. (Great Britain. Parl. Papers, 1857. sess. 1 [2201], v. 16.)

Laspeyres (E.) Welche Waaren werden im Verlaufe der Zeiten immer theurer? Statistische Studien zu Geschichte der Preise. (Zeitschrift für die gesammte Staatswissenschaft. v. 28, pp. 1–89. *Tübingen*, 1872. 8°.)

Cycles in Prices. (Banker's Magazine. vol. 33, pp. 617–618. *New York*, 1879. 8°.)

Giffen (Sir Robert). On the fall of prices of commodities in recent years. (Royal Statistical Society Journal. v. 42, pp. 36–78. *London*, 1879. 8°.)

—— De la perspective d'une baisse générale des prix. (L'Économiste français. 7. année, vol. 1, 1879, pp. 197–199. *Paris*, 1879. F°.)

Scudder (M. L.), Jr. Congested prices. *Chicago: Jansen, McClurg & Co.*, 1883. 52 pp. 12°.

Leroy-Beaulieu (Paul). La baisse des prix et la crise commerciale dans le monde, causes allé-

Digitized by Google

History (Modern), cont'd.

guées, remèdes proposés. (Revue des deux mondes. May 15., 1886, 56 année, pp. 383–418. *Paris*, 1886. 8°.)

Sauerbeck (Augustus). Prices of commodities in 1886 and 1887. (Royal Statistical Society. Journal. v. 51, pp. 154–157. *London*, 1888. 8°.)

—— Prices of commodities during the last seven years [with a discussion of the paper]. *n. t. p.* [*London: Harrison & Sons*, 1893.] 40 pp., 4 tab. 8°.

Repr.: Jl. of Roy. Statis. Soc., June, 1893.

—— Prices of commodities. [Statistical tables, published annually from the year 1886 to date.] (Jour. Roy. Statist. Soc. v. 51–date. *London*, 1888–date.)

Prices in Great Britain, Germany, France and the United States. (Quarterly Journal of Economics. v. 1, pp. 385–389. *Boston*, 1887. 8°.)

—— Prices of commodities in 1894. (U. S. Monthly Summary, etc. ser. 1894/5, pp. 1231–1241.)

Summary of index numbers. Groups of articles, 1867–77, with graphic table, fluctuations of prices, etc.

Conrad ( ). Sinken der Preise auf dem Weltmarkt. (Die Neue Zeit. 14. Jahrgang, Bd. 1, 1896, pp. 473–474. *Stuttgart*, 1896. 8°.)

United States.——*Foreign Commerce Bureau.* Money and prices in foreign countries, reports upon currency systems of various nations in their relation to prices of commodities and wages of labor. *Washington*, 1896–97. 2 v. 8°. (Spec. Cons. Rpt. v. 13.)

—— Same. 54 cong., 2d sess. H. doc. 25.

Zur Statistik der Preise. (Vierteljahrshefte zur Statistik des deutschen Reichs. Jahrg. 6 (1897) and following.)

Prices of grain and foodstuffs in principal cities of the world, drawn from *Journal de l'Agriculture* (Paris), *Internationalen Fleischerzeitung*, official price reports of Breslau Börse, etc.

Foreign and domestic prices of American products. (U. S. Industrial Commission. Reports. v. 13, pp. 725–911.)

Tables of prices and wages are given for products that are the subject of operations of trusts, as glass, rubber, thread, baking powder, etc.

By Countries.

Australia.

Wood (George H.) Changes in average prices in New South Wales, 1820–98. (Jour. Roy. Statist. Soc. v. 64, pp. 661–676. *London*, 1901.)

Course of trade and prices in Melbourne (Australia), 1852–9. (Royal Statistical Society Journal. v. 22, pp. 421–423. *London*, 1859. 8°.)

Reprint from the *Melbourne Argus*.

Austria-Hungary.

Lechner (K.) Zur Geschichte der Preisen (Mähren, 1719–21). (Notizenblatt des Vereins für die Geschichte Mährens und Schlesiens, 1896. pp. 151, 172. *Brünn*, 1897. 8°.)

Ruhland (G.) Die Agrarfrage und das internationale Grosskapital. *Wien: Mayer & Co.*, 1895. 23 pp., 1 chart. 8°. (Oesterreichische Leo-Gesellschaft. Vorträge und Abhandlungen. No. 1.)

Szarski (M.) D. Gründe d. Preisefalles der Waren. (Mitteilungen d. k. k. Finanzministeriums. 1899. pp. 530–35. *Wien*, 1899. 4°.)

Bulgaria.

Mouvement commercial de la Bulgarie avec les pays étrangérs; mouvement de la navigation par ports; prix moyens dans les principales villes pendant le mois de Décembre, 1895[–Dec., 1896, July, 1897]. *Sophia*, 1896–97. 4°.

Canada.

Canso Garrison. Subsistence accounts, 1729–1731. 16 ll.

Manuscripts, at the Lenox branch.

Prices current for November, 1840, of agricultural produce and farming stock in Upper Canada. Retail price of provision and clothing in the Home District. (In: Second report from the Select Committee on Emigration, Scotland . . . *London* [1841]. Append., pp. 46–47. Great Britain. Parl. Papers, 1841, sess. 1 (333), v. 6.)

Peat (J. B.) Effect of fall of prices in Canada. (Canadian Magazine, v. 6, pp. 210–220. *Toronto*, 1896. 8°.)

China.

Denby (C.) Decline in the value of silver and the commerce of China. 1886. (U. S. Cons. Rpts. v. 21, pp. 508–509. *Washington*, 1886. 8°.)

With tables of prices for 4½ chop Faatlee silk, Jan. 1, 1876–86, and tael price for tea at Hankow, at opening of season, 1876/77–1887/88.

Gournay (H.) La monnaie et les prix in Chine. (L'Économiste français. 26 année, vol. 1, pp. 500–502. *Paris*, 1898. F°.)

Denmark.

Prisen paa Jord i de sidste 10 Aar, af Marcus Rubin, Direktor for Statens Statistiske Bur. *Kjöbenhavn*, 1896. [Review.] (Zeitschr. Preuss. Stat., 36. Jahrg., 1896, 154–156.)

Europe.

Increase of prices in Europe, 1871–73. (Banker's Magazine. v. 34, pp. 265–272. *New York*, 1880. 8°.)

France.

Avenel (G. d') Histoire économique de la propriété, des salaires, des denrées et de tous les prix en général depuis l'an 1200 jusqu'en l'an 1800. Tome 1–4. *Paris: Imprimerie nationale*, 1894–98. 4 v. 4°.

Reviewed by A. de Foville in *L'Économiste français*, 23 année, v. 1, pp. 455–457, 523–525 (Paris, 1895).

—— La fortune privée à travers sept siècles. *Paris*, 1895. 12°.

—— Paysans et ouvriers depuis sept siècles. (Rev. des deux mondes. v. 137, pp. 596–629, 818–850; v. 147, pp. 845–880; v. 148, pp. 424–451. *Paris*, 1896–98. 8°.)

Denis (H.) La dépression économique et sociale et l'histoire des prix. 2 v., text and atlas. xv, (1) 412 pp., 37 pl. *Ixelles-Bruxelles: J. J. Huysmans, print.*, 1895. 8° and F°.

Levasseur (P. E.) Les prix aperçu de l'histoire économique de la valeur et du revenue de la terre en France du commencement du xiiie siècle à la fin du xviiie. Avec un appendice sur le prix du froment et sur les disettes depuis l'an 1200 jusqu'à l'an 1891 . . . *Paris: Chamerot et Renouard*, 1893. 148 pp., table. 8°.

Prix de divers objets au moyen âge. (Journal des Économistes. v. 19, pp. 208–210. *Paris*, 1848. 8°.)

Digitized by Google

History, etc., France, cont'd.

Forestié (Édouard). Les comptes et mandements des receveurs et maitres d' hôtel du vicomte de Fézenzaguet (1365–1372). (Bull. hist. & philologique. Année 1898, pp. 229–242. *Paris*, 1898.)

Giraud (J. B.) Comptes de l'Écurie de François d'Angoulême (1514). (Bull. hist. & philologique. Année 1898, pp. 58–81. *Paris*, 1898.)

Valeur d'objets usuels en 1645. (Annales des Alpes. Tome 1, pp. 83–88. *Gap*, 1897. 8°.)

Messance *or* **Messange,** —*pseud.* Recherches sur la population d'Auvergne, de Lyon [etc.], avec des réflexions sur la valeur du bled . . . 1674–1764. *Paris*, 1766. 4°.

Attributed to l'Abbé Audra and M. De La Michaudière.

Leroy-Beaulieu (Paul). Quelques considérations sur les prix des marchandises depuis deux siècles. (L'Économiste français. 15. année, vol. 2, pp. 285–87. *Paris*, 1887. F°.)

Laurent (Paul). Quelques prix à Mézières et à Sedan, sous l'ancien régime. (Rev. hist. ardennaise. Année 7, pp. 217–223. *Paris*, 1900.)

Biollay (L.) Études économiques sur le 18e siècle: les prix en 1790. *Paris*, 1886. 8°.

Foville (A. de). Les variations de prix en France depuis un demi-siècle. (Journal de la Société de statistique de Paris. v. 16, pp. 43–46. *Paris*, 1875. 4°.)

—— —— (L'Économiste français. 3. année, vol. 1, 2, passim. *Paris*, 1875–76. F°.)

Preisentwicklung (Die) in Frankreich in den letzten 50 Jahren nach A. de Foville, "Les variations des prix en France depuis un demi-siècle." "L'Économiste française." 30 Mai, 1874–29 Sept., 1877. (Jahrbücher für nationalökonomie und Statistik. v. 30, pp. 165–179, 245–263. *Jena*, 1878. 8°.)

Leroy-Beaulieu (Paul). Les variations des prix depuis soixante ans. (L'Économiste français. 15. année, vol. 1, pp. 221–223, 253–255. *Paris*, 1887. F°.)

—— De la baisse du prix des marchandises en gros depuis trois quarts de siècle. (L'Économiste français. 22. année, vol. 2, pp. 201–203, 233–35. *Paris*, 1894. F°.)

Lavergne (L. de) Note sur les variations des prix depuis 1826. (Journal de la Société de statistique de Paris. v. 5, pp. 119–124. *Paris*, 1864. 4°.)

Mouvement (Le) des prix en l'année 1875, d'après la commission des valeurs. (L'Économiste français, 1876, 2 semestre, pp. 592–94. *Paris*, 1876. F°.)

Foville (A. de) De l'influence du prix des marchandises sur les mouvements de notre commerce extérieur. (Journal de la Société de statistique de Paris. v. 20, pp. 281–290. *Paris*, 1879. 4°.)

—— Le mouvement des prix dans le commerce extérieur de la France. (L'Économiste français. 7. année. vol. 2, 1879, pp. 3–5, 64–65, 533–534. *Paris*, 1879. F°.)

Juglar (Clément). La baisse des prix et la crise actuelle. (L'Économiste français. 7. année, vol. 2, 1879, pp. 346–348, 410–412. *Paris*, 1879. F°.)

—— La hausse des prix et la fin de la crise. (L'Économiste français. 8. année, vol. 1, 1880, pp. 311–12. *Paris*, 1880. F°.)

Foville (A. de). Le mouvement des prix dans le commerce extérieur. (Journal de la Société de statistique de Paris. v. 23, pp. 202–208. *Paris*, 1882. 4°.)

Série de poche des prix de la ville de Paris pour les ouvrages de toute nature dépendant du service d'architecture de la préfecture de la Seine et de la ville de Paris . . . 1er novembre, 1882. *Paris: Imp. Chaix*, 1882. 4 p. l., 1028, 35 pp. 16°.

Title on cover: Série officielle de prix, 1er janvier 1883.

Mangin (Arthur). "La Série des prix de la Ville de Paris." (L'Économiste français. 9. année, v. 2, pp. 816–818; 10. année, v. 1, pp. 512–515; v. 2, pp. 646–648; 11 année, v. 1, pp. 74–76. *Paris*, 1881–83. F°.)

Leroy-Beaulieu (Paul.) La baisse des prix des marchandises communes. (L'Économiste français. 12. année, vol. 1, pp. 437–439, 469–471. *Paris*, 1884. F°.)

—— Les variations de prix des marchandises depuis vingt ans. (L'Économiste français. 17. année, vol. 1, pp. 769–71. *Paris*, 1889. F°.)

—— De la baisse des prix des marchandises et de ses causes. (L'Économiste français. 14. année, vol. 1, pp. 221–223. *Paris*, 1886. F°.)

Cellerier (L.) La baisse des prix et l'application des inventions modernes à l'industrie. (L'Économiste français. 14. année, vol. 1, pp. 729–31. *Paris*, 1886. F°.)

Mouvement (Le) des prix. (L'Économiste français. 14. année, vol. 2, pp. 443–45. *Paris*, 1886. F°.)

Foville (A. de). Une enquête sur les prix de détail. (L'Économiste francais. 15. année, vol. 2, pp. 285–287, 315 and passim. *Paris*, 1887. F°.)

Michel (Georges). Le mouvement des prix dans ces dernières années. (L'Économiste francais. 16. année, vol. 1, pp. 69–71. *Paris*, 1888. F°.)

Raffalovich (Arthur). Les prix de détail et les intermédiaires. (L'Économiste français. 17. année, vol. 1, pp. 266–267. *Paris*, 1889. F°.)

Leroy-Beaulieu (Paul). Un commencement de retour à la hausse générale des prix. (L'Économiste français. 17. année, vol. 2, pp. 725–27, 757–59. *Paris*, 1889. F°.)

Mouvement des prix de 1890 à 1900. (La Réforme Économique. 9. année, pp. 37–39, 53-67, 103–117, 190–202. *Paris*, 1900. F°.)

Baisse (La) de prix des marchandises en 1892 et ses causes économiques. (L'Économiste français. 21. année, vol. 2, pp. 803–4. *Paris*, 1893. F°.)

Cours comparés des marchandises sur la Place de Paris de mai 1895 . . . – date, passim. (La Réforme Économique. 6. année passim. *Paris*, 1897–date. F°.)

Desmets (J.) L'avilissement des prix. (La Réforme Économique. 6. année, pp. 536–37. *Paris*, 1897. F°.)

Prix (Les) de gros. (La Réforme Économique. 7. année, and pássim. *Paris*, 1898–date. F°.)

Baisse (La) des prix et la crise agricole. (Annales agronomiques. v. 25, pp. 49–75, 145–177, 356–387, 459–491; v. 26, pp. 481–511. *Paris*, 1899–1900.)

Digitized by Google

History, etc., France, cont'd.

Flux (A. W.) Price movements in the foreign trade of France. (Jour. Roy. Statist. Soc. v. 63, pp. 480–484. *London*, 1900.)

Sinceny (P.) La baisse des prix et le mont-de-piété. (La Réforme Économique. 10. année, p. 253. *Paris*, 1901. 8°.)

Desmets (J.) Le Mouvement des Prix de Gros en France. (La Réforme Économique. 10. année, p. 1306. *Paris*, 1901. 8°.)

Comparison of prices in October, 1900, and 1901.

Domergne (Jules). La Baisse des Prix et la Surproduction. (La Réforme Économique. 11. année, pp. 159–161. *Paris*, 1902. 8°.)

Germany.

Inama-Sternegg (Karl Theodor). Werth und Preis in der Ältesten Periode deutscher Volkswirthschaft. (Jahrbücher für Nationalökonomie und Statistik. v. 30, pp. 197–234. *Jena*, 1878. 8°.)

Warenpreise im Bisthum Münster 1467 bis 1560. (Zeitschr. Preuss. Stat. 36. Jahrg. 1896, St. K. xxix–xxxi. *Berlin*, 1896. F°.)

Kaiser (Hans). Die Kostenrechnung einer bischöflichstrassburgischen Gesandtschaft an die Curie 1478–79. (Zeitschr. f. d. Geschichte d. Oberrheins. n. s. v. 14, pp. 180–193. *Karlsruhe*, 1899.)

Wiebe (G.) Die Preiseumwalzung der 16. und 17. Jahrhunderts. (Historisch-politische Blätter für d. katholische Deutschland. 118. Bd., pp. 434–45. *München*, 1897. 8°.)

Syrkin (N.) Preis-Fall im letzten Jahrhundert. (Gegenwart, 1900. no. 2. *Berlin*, 1900. 8°.)

Soetbeer (A.) Procentweise Zusammenstellung der Veränderungen in den Durchschnittspreisen van 100 Handelsartikeln während des Zeitraums von 1851 bis 1880 in fünfjähriger und zehnjähriger Perioden, verglichen mit den Durchschnittspreisen in den Jahren 1847–50. Berechnet auf Grund der nach den Hamburger Börsenpreisen beim Handelsstatischen Bureau in Hamburg deklarirten Einfuhr. (Pp. 210–213 of his Zur Statistik der Edelmetalle in den Jahren 1876–1880, in Jahrbücher für Nationalökonomie. n. F., 3. Bd. *Jena*, 1881. 8°.)

Durchschnittswerth verschiedener Handelsartikel in Vereinsthalern [im preuss. Staate] 1849–1862. (Zeitschr. Preuss. Stat. 4. Jahrg. 1864, 132–133.)

Beiträge zu einer Deutschen Handels-statistik (1) Waaren-Duchschnittspreise und auswärtiger Handel. (Annalen des Deutschen Reichs für Gesetzgebung. 1869, p. 68–84. *Leipzig*, 1869. 8°.)

Neumann-Spallart (F. X.) Geldwert und Preisbewegung im Deutschen Reiche 1871–84. (Staatswissenschaftliche Studien. 1 Bd. 3 Heft. *Jena*, 1887. 8°.)

Preise für den Deutschen auswärtigen Handel 1872/73. (Annalen des Deutschen Reichs für Gesetzgebung, 1875, pp. 689–730. *Leipzig*, 1875. 8°.)

Spezial Uebersicht der Preisbewegung einiger Hauptartikel im 1–4 Quartal 1877, 1880. (Annalen des Deutschen Reichs für Gezetzgebung, Verwaltung und Statistik. 1879, pp. 87–99; 1882, 127. *Leipzig*, 1879–82. 8°.)

Peters (H.) Hülfsbuch zur Ausstellung von Lohnregulationen und Preisberechnungen für Bautischlerarbeiten, mit Angabe des Materialbedarfs und des durchschnittlichen Arbeitswerths nach Stunden und Minuten zum praktischen Gebrauch für Behörden, Baumeister, Bauunternehmer und Fachleute. *Berlin*, 1877. 8° and atlas f°.

Preisentwickelung (Die) während der letzten Decennien nach den Hamburger Börsennotirungen. (Jahrbücher für Nationalökonomie und Statistik. 2. F. B. 5, pp. 177–185. *Jena*, 1888. 8°.)

Monatliche Durchsnittspreise wichtiger Waaren im Grosshandel. January 1879–date.

(In: Statistik d. deutschen Reichs. v. 37 and following.)

Statement from the official reports of the German government, showing the average prices in the German empire of the leading articles of merchandise during the years 1879–84. (U. S. Cons. Rpt. v. 17, pp. 169–171. *Washington*, 1884. 8°.)

Grosshandels Preise wichtiger Waaren an deutschen Plätzen im Jahre 1896 und in Jahren 1879 bis 1896. (Vierteljahrshefte zur Statistik des deutschen Reichs. v. 6. *Berlin*, 1896–date. F°.)

Durchschnittspreise wichtiger Waaren im Grosshandel 1880[–1883] verglichen mit 1879 [–1882]. (Annalen des Deutschen Reichs für Gesetzgebung, Verwaltung und Statistik. 1881, pp. 195–204; 1882, pp. 517–526; 1883, pp. 139–152. *Leipzig*, 1881–'83. 8°.)

Conrad (J.) Beiträge zur Beurteilung der Preisreducktion in den 80er Jahren. (Jahrbücher für Nationalökonomie und Statistik. 2. F., 15. Bd., pp. 322–34. *Jena*, 1887. 8°.)

Vogeler (F.) Prices in Germany, June, 1882. (U. S. Cons. Rpt. 21, pp. 402–406. *Washington*, 1882. 8°.)

Average wholesale price of leading articles of merchandise in the month of April, 1882.

—— Prices in Germany, March, 1883. (U. S. Cons. Rpts. v. 10, pp. 102–105. *Washington*, 1883. 8°.)

Smith (J. H.) Prices in Germany. (U. S. Cons. Rpts. v. 11, pp. 722–724. *Washington*, 1883. 8°.)

Average prices of leading articles of merchandise during Sept. and Oct., 1883.

—— Prices in Germany, 1886. (U. S. Cons. Rpts. v. 21, pp. 615–616. *Washington*, 1886. 8°.)

With comparative tables of average prices of leading articles of food, oats, hay and straw in Hesse in months of Apr. to Sept., 1885 and 1886.

Soetbeer (Ad.) Das Niveau der Waarenpreise in den Jahren 1886–90. (Jahrbücher für Nationalökonomie und Statistik. 3. F., 3. Bd., pp. 588–96. *Jena*, 1892. 8°.)

Scharling (William). Der Detailhandel und die Waarenpreise. (Jahrbücher für Nationalökonomie und Statistik. 2. F., Bd. 13, pp. 285–325. *Jena*, 1886. 8°.)

Tanner (G. C.) Low prices for manufactured goods in Germany, 1886. (U. S. Cons. rpts. v. 19, pp. 471–472. *Washington*, 1886. 8°.)

Raine (F.) Germany, 1887. (U. S. Cons. Rpts. v. 22, pp. 604–673. *Washington*, 1887. 8°.)

With table of average wholesale prices of chief articles for 1880–85, and Aug., 1886.

Berght (R. van der). Der Einfluss des Zwischenhandels auf die Preise, auf Grund der Preisent-

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History, etc., Germany, cont'd.

wicklung im aachener Kleinhandel. *Leipzig*, 1888. 8°. (Verein für social polit. Schriften. Bd. 36, 1. Heft.)

Conrad (J.) Die Entwickelung des Preisniveaus in den letzten Decennien und der deutsche Getreidebedarf in den letzten Jahren. (Jahrbücher für Nationalökonomie und Statistik. 3. F., Bd. 17, pp. 642–660; Bd. 19, pp. 525–539. *Jena*, 1899–1900. 8°.)

Preisentwickelung (Die) der Jahre 1889 und 1890, verglichen mit den Vorjahren. (Jahrbücher für Nationalökonomie und Statistik. 3. F., 1. Bd., pp. 913–24. *Jena*, 1891. 8°.)

Preise (Die) des Jahres 1891[–1897] verglichen mit den Vorjahren. (Jahrbücher für Nationalökonomie und Statistik. *Jena*, 1893–1898. 8°.)

Conrad (J.) Die Preise des Jahres 1893 in Deutschland und der Einfluss des Zolles auf die Getreidepreise. (Jahrbücher für Nationalökonomie und Statistik. 3. F., 7. Bd., pp. 301–21, *Jena*, 1894. 8°.)

Dreher (W. C.) Retail prices in Germany, 1894. (U. S. Cons. Repts. v. 45, pp. 8–9. *Washington*, 1894. 8°.)

With comparative table of average prices for 1892 and 1893.

—— Prices in Germany, 1896. (U. S. Cons. Repts. v. 51, pp. 241–242. *Washington*, 1896. 8°.)

With table of prices for 1891–95.

Schotte (F.) Preisbildung und Fortschritte in der Herstellung der Waaren. (Jahrbücher für Nationalökonomie und Statistik. 3 F., 12. Bd., pp. 161–75. *Jena*, 1896. 8°.)

C[onrad] (J.) Das Preisniveau in den Jahren 1896, 1897 vergleichen mit den Vorjahren. (Jahrb. f. Nationalökonomie u. Statist. (v. 70) Ser. 3, v. 15, pp. 767–780. *Jena*, 1898. 8°.)

Diehl (K.) Kornzoll und Sozialreform. *Jena: G. Fischer*, 1901. 57 pp. 8°.

—— *Baden.*

Preise (Die) des Jahres 1892. (Stat. Mitth. ü. d. Grossh. *Baden*, 1893.)

Continued each year thereafter.

—— *Gotha.*

Monatlichen (Die) Durchschnittspreise der Hauptfruchtgattungen während der letzten hundert Jahre in Gotha. (Jahrbücher für Nationalökonomie und Statistik. v. 1, pp. 398–400. *Jena*, 1863. 8°.)

Grunde (Die) des Preisfalles der Waren. 3 charts. (Mittheil. d. k. k. Finanz-Ministeriums. Jahrg. 5, pp. 530–635. *Wien*, 1899.)

Zur Statistik der Preise. (Vierteljahrshefte zur Statist. d. deut. Reichs. Jahrg. 8 (1899) Heft 4, pp. 119–128; Jahrg. 9 (1900) Heft 2, pp. 56–62; Jahrg. 10 (1901) Heft 2, pp. 187–197. *Berlin*, 1899–1901.)

Grosshandels-Preise wichtiger Waaren an deutschen Plätzen. Preise für die einzelnen Monate des Jahres 1900. (Vierteljahrshefte zur Statistik des Deutschen Reichs. Jahrg. 10, 1901. Heft. 1, pp. 35–40. *Berlin*, 1901.)

—— *Bremen.*

Durchschnittswerth verschiedener Handelsartikel in Vereinsthalern, in Bremen. (Annalen des Deutschen Reichs für Gesetzgebung. 1869, pp. 79–84, 645–48. *Leipzig*, 1869. 8°.)

Preise und verbrauch. (Jahrbuch für Bremische Statistik, 1896–date. *Bremen*, 1897–date. F°.)

Prices by months from 1892 of principal articles of commerce of Bremen.

—— *Hamburg.*

Durchschnittswerth verschiedener Handels-Artikel in Vereinsthalern in Hamburg (1847–68). (Annalen des Deutschen Reiches für Gesetzgebung, Verwaltung und Statistik. 1869, pp. 85–143, 435–39. *Leipzig*, 1869. 8°.)

Durchschnittspreise für wichtigere Handelswaren in Hamburg, 1847–1892. (Zeitschr. Preuss. Stat. 34. Jahrg. 1894, St. K. xxx.)

—— der in den Jahren 1867/69, 1868/70, 1871/75, 1876/77, 1877/79, 1880/1881, 1882/83, 1883/84, 1884/85, 1885–86, in Hamburg importirten Waaren. (Annalen des Deutschen Reichs für Gesetzgebung, Verwaltung und Statistik, 1870, pp. 399–406; 1871, pp. 537–43; 1877, pp. 165–86; 1879, pp. 81–86; 1880, pp. 81–90, 856–874; 1882, pp. 127–133, 676–680; 1883, pp. 739–764; 1884, pp. 560–563; 1885, pp. 628–631; 1886, pp. 877–880; 1887, pp. 720–723. *Leipzig*, 1870–1887. 8°.)

Bayerdörffer (A.) Die Preise von Waaren und Barrensilber in Hamburg. (Jahrbücher für Nationalökonomie und Statistik. 3. F., 8. Bd., pp. 603–6. *Jena*, 1894. 8°.)

Landau (Fab.) Indexnummern Hamburger Import-Artikel. (Jahrbücher für Nationalökonomie und Statistik. 3. F., 13. Bd., pp. 281–84. *Jena*, 1897. 8°.)

Conrad (J.) Preiseentwicklung im Hamburg. Handel in den letzten Jahren. (Jahrbücher für National-ökonomie und Statistik. 3. F., 20. Bd., pp. 669–73. *Jena*, 1900. 8°.)

—— *Hesse.*

Beiträge zur Geschichte der Preise und des Tagelohns in Hessen. (Jahrbücher für Nationalökonomie und Statistik. v. 19, pp. 145–67. *Jena*, 1872. 8°.)

—— *Saxony.*

Falke (Johannes). Geschichtliche Statistik der Preise im Königreich Sachsen. (Jahrbücher für Nationalökonomie und Statistik. v. 13, pp. 364–395; v. 16, pp. 1–71. *Jena*, 1869–'70. 8°.)

—— *Thuringia.*

Kius (*Dr.*) Die Preis- und Lohnverhältnisse des sechszehnten Jahrhunderts in Thüringen. (Jahrbücher für Nationalökonomie und Statistik. v. 1, pp. 65–78, 279–309. *Jena*, 1863. 8°.)

—— *Würtemberg.*

Güterbewegung im Jahr 1873. (Württemb. Jahrb. 1873, 1. Th., pp. 223–230. *Stuttgart*, 1874. 8°.)

With tables of wool prices for 1873, cereals 1872, '73, and 1864–73.

Zur Statistik der Preise und Löhne in Württemberg. (Annalen des Deutschen Reichs für Gesetzgebung. 1875, pp. 631–36. *Leipzig*, 1875. 8°.)

Great Britain.

Rogers (J. E. T.) A history of agriculture and prices in England from the year after the Oxford

Digitized by Google

History, etc., Great Britain, cont'd.

Parliament, 1259, to the commencement of the continental war, 1793 . . . *Oxford: Clarendon Press*, 1866–87. 6 v. 8°.

[**Bill** of expences of two men sent from Thetford to the army against the Scots, 1336.] (Annual Register. 1780 (part 2), p. 163. *London*. 8°.)

From the appendix to Martin's *History of Thetford*.

Cowper (J. M.) Accounts of the churchwardens of St. Dunstan's, Canterbury, A. D. 1484–1580. *London: Mitchell & Hughes*, 1885. 1 p. l., xiv, 3–104 pp. 8°.

Repr.: Archæologia Cantiana.

Extract from an Inventory of the Goods, Chattels, etc., of Thomas Kebeel, Serjeant at Law, appraised by Valentine Mason, General Appraiser unto the most Reverend Father in God the Lord Cardinal and Archbishop of Canterbury. 6' Julij, 15° Hen. VII. 1500. (Annual Register. 1768 (part 2), pp. 134–138. *London*. 8°.)

Saint Martin-in-the-Fields, Westminster. The accounts of the churchwardens, 1525–1603; transcribed and edited by J. V. Kitto. *London: Simpkin, Marshall, Kent, Hamilton & Co.*, 1901. x, 638 pp., 1 l., 13 fac-sim., 1 pl. 4°.

no. 78 of 250 copies printed.

Madden ([*Sir*] Frederick). Privy purse expenses of the Princess Mary, daughter of King Henry the Eighth, afterwards Queen Mary: with a memoir of the Princess, and notes. *London: W. Pickering*, 1831. 3 p. l., ix–ccv, 1 l., 286 pp. 8°.

Elizabeth (Queen of England). Household expenses of the Princess Elizabeth, during her residence at Hatfield, Oct., 1551–Sept. 30, 1552; ed. by Vct. Strangford. (In Camden Soc. Pub., v. 55; Misc., v. 2.) [*London*,] 1853. sq. 8°.

Playfair (W.) A letter on our agricultural distresses, their causes and remedies; with charts shewing the prices of wheat, bread and labour, 1565–1821; addressed to the Lords and Commons. *London*. 2. ed. 1822. 8°.

Robinson (C. B.) Prices in Snaith, Yorkshire, 16–18 Centuries. (Royal Statistical Society. Journal. v. 21, pp. 369–420. *London*, 1858. 8°.)

McArthur (*Miss* Ellen A.) Prices at Woodstock in 1604. (Eng. Hist. Rev. *London*, 1898. 8°. v. 13, pp. 711–716.)

Extracts from Alleyn's Journal; entitled The Founders 1st Booke of Accounts, from October, 1617, to September, 1022. (Annual Register, 1793 (part 2), pp. 345–350. *London*. 8°.)

Cost of furnishing the "Margaret" [for a voyage to and settlement in Virginia in 1612]. (Bulletin of the New York Public Library. v. 3, pp. 213–223. *New York*, 1899. 8°.)

Northumberland, *Duke of*. Household expenses, 1687–1696. 5 vols. F°.

Manuscripts, at the Lenox branch.

Rural economy in Yorkshire, in 1641: being the farming and account books of Henry Best, of Elmswell, in the east riding of the county of York [edited by C. B. Norcliffe, originally C. B. Robinson]. (Surtees Soc. Pub., v. 33.) *Durham*, [*Newcastle-upon-Tyne, printed*,] 1857. pl. 8°.

Halliwell[-Phillipps] (J. O.) Some account of a collection of . . . bills, accounts, and inventories, illustrating the history of prices between . . . 1650 and 1750 . . . *Brixton Hill*: [*C. & J. Adlard, pr.*,] 1852. xii, 120 pp. 4°.

Way (The) to be rich and respectable, addressed to men of small fortune. *London: The Author* [17—]. 1 p. l., 46 pp. 8°.

Great Britain.—*Navy*. Accounts of George Grenville, treasurer of the navy, 1754–1762. 8 vols. F°.

Manuscripts, at the Lenox branch.

[**Young** (A.)] A six weeks tour, through the southern counties of England and Wales. Describing, particularly I. The present state of agriculture and manufactures. II. The different methods of cultivating the soil. III. The success attending some late experiments on various grasses, etc. IV. The prices of labour and provisions. V. The state of the working poor in those counties, wherein the riots were most remarkable. With descriptions and copper-plates, of such newly invented implements of husbandry as deserve to be generally known; interspersed with accounts of the seats of the nobility and gentry . . . In several letters to a friend. By the author of the Farmer's letters. *London: W. Strahan*, 1769. xi, 377 pp., 8 l., 1 pl. 2. ed. 8°.

Jevons (W. S.) Variations of prices, 1782–1865. (Royal Statistical Society. Journal. v. 28, pp. 294–320. *London*, 1865. 8°.)

Fluctuations of corn, currency, consols, from 1790 to 1883. *London*, 1834. f°.

Tooke (T.) Thoughts and details on the high and low prices of the last thirty years. *London: J. Murray*, 1823. pts. 1–4. 2 v. 8°.

Reviewed in the *Quarterly Review*, v. 29, pp. 214–239. (London, 1823.)

—— A history of prices and of the state of the circulation from 1793 to 1856 . . . *London: Longman, Orme, etc.*, 1838–57. 6 v. 8°.

v. 5–6 written by T. Tooke and W. Newmarch.

Girdler (J. S.) Observations on the pernicious consequences of forestalling, regrating and ingrossing, with a list of the statutes for the punishment of those offences; proposals for new laws . . . thoughts on . . . coal trade, sale of cattle in Smithfield . . . *London: L. B. Seeley*, 1800. 2 p. l., 96 pp. 8°.

Tableau des cours moyens des principaux articles de consommation en Angleterre depuis le commencement du siècle dressé par M. Auguste Sauerbeck. (La Réforme Économique, Supplément Avril, 1898. *Paris*, 1898. F°.)

Boyd (W.) A letter to the Right Honourable William Pitt, on the influence of the stoppage of issue in specie at the Bank of England; on the prices of provisions, and other commodities. *London: J. Wright*, 1801. viii, 112 pp. 8°.

Cause of rise of prices. (Annual Register. v. 43, pp. 8–27. *London*, 1802. 8°.)

Price current [Gt. Britain]. An account of the prices of sugar, coffee, cotton, hemp, flax, tallow, whale oil, deals, timber, and tobacco, in . . . January and July . . . from 1810 . . . to . . . 1822 . . . [*London*, 1822.] 2 l. F°. (Great Britain. Parl. Papers. Sess. 1822, (408). v. 21.)

—— Same, 1813/31. (In Tables of revenue, population, etc., part 1.)

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History, etc., Great Britain, cont'd.

Hoare (Peter Richard). Reflections on the possible existence and supposed expedience of national bankruptcy. *London: T. Cadell*, 1811. 2 p.l., 76 pp. 8°.

Galton (S. Tertius). A chart exhibiting the relation between the amount of Bank of England notes in circulation, the rate of foreign exchanges, and the prices of gold and silver bullion and of wheat; with observations. *London*, 1813. 8°.

Considerations on the importation of foreign corn . . . shewing that the present high price of everything has been caused by the excessive increase of the rent of land, and a circulating taxation . . . *London: The Author*, 1814. 2 p.l., 115 pp. 8°.

Wilson (Robert). An enquiry into the causes of the high prices of corn and labour, the depressions on our foreign exchanges and high prices of bullion, during the late war; and consideration of the measures to be adopted for relieving our farming interest from the unprecedented difficulties . . . in consequence of the great fall in the price of their produce since the peace; with relative tables and remarks, etc. *Edinburgh: A. Constable & Co.*, 1815. 2 p.l., iv, 87 pp. 8°.

[**Tables** of prices. (In Tables of revenue, population and commerce of the United Kingdom, 1833–1854, pt. 1–22; and Miscellaneous statistics of the United Kingdom, 1858–1883, pt. 1–11.)

In detail as follows: Tables of prices, 1815/31–1852, and a few earlier prices; British grain, 1815/31–52; average prices of grain for purposes of the Tithes Commissioners, 1835/9–52; grain in Guernsey and Jersey, 1820/39–46; wheat in Scotland, 1771/1809; fiar prices in Scotland, 1828/39–41; wheat in Ireland, 1784/1809; wheat and oats in Dublin, 1815/34–42; food, clothing and provisions at Greenwich, or other hospitals, 1815/31–48; beef and mutton at St. Thomas's Hospital, 1688/31–49; prices paid by Commissariat Department for bread, meat, etc., 1819/31–35; provisions and victualling stores for the navy, 1832–35; prices in London: provisions and merchandise, 1813/31–48; quartern loaf and other bread, 1781/1815, 1828/32–48; butcher's meat, 1840/4–50; Lincolnshire wool, 1833/4; cotton, 1838/46; worsted yarn, 1827/35; leather, 1829/30–34, etc.; British corn in England and Wales; wheat, barley and oats for the purposes of the Tithe Commissioners; Prices of same in Dublin; Fiars prices of same in Scotland, 1854–79; Contract prices of bread, meat, etc., supplied to the troops in England, Wales, Scotland, the Channel Islands, and Ireland; provisions, etc., for the navy, 1855–76; food, clothing, etc., at Greenwich Hospital, etc., with the rates of wages of the artizans, 1855–57; butcher's meat in the London market.

Statistics of prices, 1818–50. (Banker's magazine. v. 10, pp. 712–718. *London*, 1850. 8°.)

Report from the select committee [Gt. Britain] on petitions complaining of agricultural distress, etc. [with minutes of evidence]. [Returns of average prices. Fraudulent returns. Proposed regulations.] [*London*, 1820.] 125 pp. F°. (Great Britain. Parl. Papers. Sess. 1820, (255). v. 2.)

Cleghorn (James). On the depressed state of agriculture. *Edinburgh: A. Constable & Co.*, 1822. 2 p.l., 140 pp. 8°.

Lowe (Joseph). Effect of the war on the price of commodities. (Chapter 3 and appendix in his The present state of England in regard to agriculture, trade and finance. 2 ed. *London*, 1823. pp. 45–72 [9–14]. 8°.)

Kilmainham Hospital, Dublin. An account of the contract prices of flesh, bread, flour . . . oatmeal . . . candles, shoes, stockings, hats . . . bedding and . . . clothes; also, of the daily wages of . . . labourers, from the earliest period . . . to the present time at Kilmainham Hospital. [*London*, 1830.] 4 pp. F°. (Great Britain. Parl. Papers. Sess. 1830–31, (84). v. 6.)

Great Britain.—*Bank of England Charter Committee.* Report from the Committee of Secrecy [Gt. Britain] on the Bank of England Charter; with the minutes of evidence, appendix, and index. [How prices are affected by contraction of currency, by variation in the circulating medium, by the price of corn. Prices and markets not settled by the demand and supply, but by issues of the Bank of England. An account of contract prices of provisions supplied to Chelsea and Greenwich Hospitals, 1818–1832. Prices of wheat, of beef and mutton at Smithfield Market, of coals, iron, leather, wool, linen, cotton, flour, tallow, etc., 1819–1832.] [*London*, 1832.] 486, 189 pp. F°. (Parl. Papers. Sess. 1831–32, (722). v. 6.)

[**James** (H.)] The future prospects of the British people. By the author of The state of the nation [*i. e.* H. James.] *London: E. Wilson*, 1836. 2 p.l., 112, 3 pp. 8°.

Harley (James). The currency; its influence on the internal trade of the country: in a letter addressed to the drapers of Scotland; with a section from . . . "A history of prices," by Thos. Tooke. v, (1) 7–43, 66 pp. *Glasgow: J. Smith & Son*, 1839. 8°.

Great Britain.—*Banks of issue committee.* Report from Select Committee [Gt. Britain] on Banks of Issue; with the minutes of evidence, appendix, and index. [Effect upon prices of fluctuations in the issues of notes. Fluctuations of prices since 1833, considered with reference to the circulation. Effect of the corn laws upon prices. An account of the average price of wheat, barley and oats . . . in England and Wales, 1832–1839. A statement of the prices of various articles from foreign countries, 1832–1839: cotton, wool, provisions, etc.] [*London*, 1840.] xii, 374, 424 pp. F°. (Parl. Papers. Sess. 1840, (602). v. 2.)

—— —— First [and] Second report from the Select Committee [Gt. Britain] on Banks of Issue; with the minutes of evidence, appendix, and index. (1841.) [Connexion between prices and circulation. High prices stimulate speculation and lead to increased circulation. Examination with reference to the prices of agricultural produce and the country circulation. Average price of wheat, barley and oats, per quarter, in England and Wales . . . Jan. 3.–Dec. 25, 1840.] [*London*, 1841.] 4 pp.; viii, 358 pp. (Parl. Papers. 1841. Sess. 1, (366, 410). v. 5.)

Prices current, Weekly. (The Economist. v. 1–date. *London*, 1843–date. F°.)

Wholesale prices and commodities, mainly in London and Manchester. Average 6 years, 1845–50; selected dates, 1879–93; and monthly, 1894. (U. S. Monthly summary, etc., Ser. 1894/5, pp. 1242–45. *Washington*, 1895. 4°.)

From Lond. Economist Commercial Hist. and review of 1894.

Fall (The) of price from repealing the corn law. (The Economist. v. 4, pp. 34–37. *London*, 1846. F°.)

Great Britain.—*Commercial Distress Committee.* First [and] Second report from the Secret Committee on Commercial Distress; with the min-

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History, etc., Great Britain, cont'd.

utes of evidence. Appendix to reports . . . [and] Supplemental appendix . . . with index. [Comparison of the fall of prices in the panic of 1825 and in 1847.' How fluctuations of the circulation correspond with fluctuations of prices. Price of raw materials as affected by money pressure. Tendency of the bank charter acts of 1819 and 1844, with free trade, to lower prices to the continental level; the effect on wages. Reason of sudden rise and fall in the price of corn in 1847. Price of wheat at Dantzig and Odessa, and of flour in New York.] [*London*, 1848.] 4 v. in 2. (Parl. Papers. Sess. 1847–48, (395, 584). v. 8, pt. 1–2.)

Statistics of prices in 1848. (Bankers' Magazine. v. 9, pp. 65–76. *London*, 1849. 8°.)

Dawson (J. T.) Effect of changes in prices in Great Britain. (Royal Statistical Society. Journal. v. 11, pp. 101–140. *London*, 1848. 8°.)

Greenwich Hospital. Return "of the prices of . . . food, clothing, and household stores, bought for the . . . hospital at Greenwich, and of the rate of wages paid to artizans . . . with the prices of provisions at Bethlem Hospital; and of bread and meat bought by the Commissariat Department, 1836–1849 . . . [*London*, 1850.] 14 pp. F°. (Great Britain. Parl. Papers. Sess. 1850, (213.) v. 35.)

—— Same, 1815–1835. (In: Second report from the Select Committee appointed to inquire into the state of agriculture . . . [*London*, 1836.] Append. 9. Great Britain. Parl. Papers. Sess. 1836, (189.) v. 8, pt. 1.)

—— Same. 1850–1853 . . . [*London*, 1854.] 4 pp. F°. (*Idem*. Sess. 1854, (257.) v. 42.)

Huxtable (*Rev.* A[nthony]). The "Present prices" . . . *Blandford* [*Eng.*]: *W. Shipp, Printer*, 1850. 2 p. l., 34 pp., 1 l. 8°.

Cole (William Alfred). The effect of war on the prices of commodities, 1850–1900. (Inst. of bankers. Jour. v. 22, p. 335–358. *London*, 1901.)

Mulhall (M. G.) History of prices since the year 1850. 8 diagrams, col'd. *London*, 1885. 12°.

Newmarch (William). Summary of Results. Prices since 1851. (pp. 96–100 of Mercantile Reports of the character and results of the trade of the United Kingdom during the year 1858. Royal Statistical Society. Journal. v. 22, pp. 76–100. *London*, 1859. 8°.)

Prices and prospects. (The Economist. v. 9, pp. 704–705. *London*, 1851. F°.)

War prices fallacy. (The Economist. v. 14, pp. 392–93. *London*, 1856. F°.)

Great Britain.—*Bank acts committee.* Report from the Select Committee [Gt. Britain] on Bank Acts; together with the proceedings . . . minutes of evidence, appendix and index . . . [Effect of advances of capital upon prices. Table showing want of coincidence between prices and the rate of interest. Effect of the movement of prices upon the circulation. Prices of fifteen of the principal articles of commerce, quarterly, 1834–1853. Effect of the present monetary system on wages.] [*London*, 1857.] 2 pts. (Parl. Papers. 1857, Sess. 2, (2201-2) v. 10, pt. 1–2.)

Rogers (J. E. T.) Prices in England. (Royal Statistical Society. Journal. v. 24, pp. 535–585. *London*, 1861. 8°.)

Preisschwankungen (Die) britischer Waaren von 1861 bis 1877. (Zeitschr. Preuss. Stat. 19. Jahrg. 1879, St. K. xvi–xvii.)

Giffen (R.) Report to the Secretary of the Board of Trade on the prices of exports of British and Irish produce, and the prices of imports, 1861–78. *London*, 1880. 28 pp. F°. (Great Britain. Parlt. Papers. Sess. 1880, C. 2484, v. 67.)

Leslie (T. E. C.) Changes in prices. (The Economist. v. 23, pp. 1239–40; 1458–1459; v. 27, pp. 90–91; 177–179; 355–356; 688–690; v. 28, p. 600. *London*, 1865–70. F°.)

Great (The) rise in the price of commodities. (Economist. v. 29, pp. 1585–87. *London*, 1871. F°.)

Course of prices from November, 1873, to March, 1874. (Banker's magazine. v. 34, pp. 285–290. *London*, 1874. 8°.)

Hansard (Luke). On the prices of some commodities during the decade 1874–83. Institute of Bankers. Journal. v. 6, pt. 1. pp. 1–57. *London*, 1885. 8°.)

Course (The) of prices of commodities. (The Economist. v. 32–date, passim. *London*, 1874–date. F°.)

A standing article—appearing usually four times a year.

Giffen (R.) Recent fall in prices, 1879. (Royal Statistical Society. v. 42, pp. 69–78. *London*, 1879. 8°.)

The Report of the International Monetary Conference of 1878 (pp. 389–408) reprints a portion of the above. (U. S. 45. Cong. 3. Sess. Senate Exec. Doc. no. 58.)

—— Report to the Secretary of the Board of trade on recent changes in the amount of the foreign trade of the United Kingdom and the prices of imports and exports. *London*, 1881. 30 pp. F°. (Great Britain. Parl. Papers. Sess. 1881, C. 3079, v. 83.)

Fall in prices in 1883. (Royal Statistical Society. Journal. v. 47, pp. 348–359. *London*, 1884. 8°.)

Weston (G. M.) British view of fall in prices. (Banker's magazine. v. 38, pp. 336–342. *New York*, 1884. 8°.)

Poynting ( ). A comparison of the fluctuations in the price of wheat and in the cotton and silk imports into Great Britain. (Royal Statistical Society. Journal. vol. 47, pp. 34–64. *London*, 1884. 8°.)

Fowler (W.) Prices in England in 1885. (Contemporary Review. v. 47, pp. 536–547. *London*, 1884. 8°.)

Giffen (R.) Report to the Secretary of the Board of Trade on recent changes in the amount of the foreign trade of the United Kingdom, and the prices of exports and imports. *London*, 1885. viii, 54 pp. F°. (Great Britain. Parl. Papers. Sess. 1884/85, C. 4456, v. 71.)

—— Low prices and depression in trade. (Contemporary Review. v. 47, pp. 800–822. *London*, 1885. 8°.)

Great Britain.—*Depression of trade commission.* First, second, third and final reports. With minutes of evidence and appendix of the Roy. Commission appointed to inquire into the depression of trade and industry. *London*, 1886. 8°. (Great Britain. Parl. Papers. Sess. 1886, v. 21–23.)

With various tables of prices and wages.

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History, etc., Great Britain, cont'd.

Sauerbeck (A.) Prices in England, 1886–92. (Royal Statistical Society. Journal. v. 56, pp. 215–254. *London*, 1893. 8°.)

Range of prices and rate of interest. (Banker's Magazine. v. 48, pp. 933–941. *London*, 1888. 8°.)

Wells (David A.) Fall in prices. (Contemporary Review. v. 52. pp. 523–548, 628–643. *London*, 1887. 8°.)

Rise in prices and banking business, 1888. (Banker's Magazine. v. 48, pp. 1253–1258. *London*, 1888. 8°.)

Giffen (*Sir* Robert). Recent changes in prices and incomes compared. (Royal Statistical Society. Journal. v. 51, pp. 713–815. *London*, 1888. 8°.)

—— Report to the Secretary of the Board of Trade on recent changes in the prices of exports and imports, 1888. viii, 58 pp. F°. (Great Britain Parl. Papers. Sess. 1888, C. 5386, v. 91.)

With tables of average prices for British and Irish produce exported, 1840–86; percentage increase or decrease in prices in certain years compared with 1861; average prices of articles imported, 1854–1886; percentage increase or decrease in prices in certain years compared with 1861.

Wholesale prices. (Banker's Magazine. v. 49, pp. 1356–1361. *London*, 1889. 8°.)

Comparative prices of leading articles [in the London markets, April 1, 1892–June 1, 1893]. (U. S. Monthly Summary, etc., Ser. 1893/4, pp. 1004, and following ser.)

Phipson (C. B.) Prosperity and prices. (Westminster Review. v. 141, pp. 652–668. *London*, 1894. 8°.)

Prices of commodities. (The Economist. v. 54–date. *London*, 1896–date. F°.)

Quarterly.

Newman (Robert). Wholesale and retail prices. (Economic Journal. v. 7, pp. 346–353. *London*, 1897. 8°.)

Prices. (The Statist. v. 39–date, passim. *London*, 1897–date. F°.)

Prix comparatifs des marchandises sur le marché de Londres. (La Réforme Économique. 7., 8. année, passim. *Paris*, 1897–1898. F°.)

Comparative wholesale prices of leading articles [London markets]. (Monthly summary of commerce and finance of U. S. pp. 1864–1867. *Washington*, 1899.)

Index numbers of the prices of commodities in 1899. (Jour. Roy. Agric. Soc. of Eng. v. 11, pp. 144–147. *London*, 1900.),

Course of British Prices. (Bradstreet's. v. 28, pp. 38, 246, 294, 422, 822. *New York*, 1900. F°.)

White (Robert). Fixed incomes and rising prices. Twentieth Century. v. 1, pp. 327–349. *London*, 1901.

—— *Ireland.*

Prices in Ireland. (Quarterly Journal of Economics. v. 1, pp. 134–135. *Boston*, 1887. 8°.)

India.

Juglar (Clément). Les variations de prix dans l'Inde et la prime à l'exportation. (L'Economist français. 22. année, vol. 1, pp. 451–54. *Paris*, 1894. F°.)

Statistical atlas of India. ed. 2. 1895. *Calcutta*, 1895. 73 pp. maps. obl. f°.

Chapter xi, Prices, by J. E. O'Conor.

Gournay (H.) Le mouvement des prix dans l'Inde. (L'Économiste française. 25 année, vol. 1, pp. 583–84. *Paris*, 1897. F°.)

Italy.

Faraglia (N. F.) Storia dei prezzi in Napoli dal 1131 al 1860. (Atti del R. Instituto di Incorraggiamento alle sciene naturali, etc. ser. 2, v. 15, pp. 47–426.)

For a synopsis of contents see *Annali di Statistica*, ed. 3. p. 112.

Jamaica.

Jamaica. Letters from Jamaica on commercial affairs, with invoices, bills of exchange, and miscellaneous papers, 1662–1788. About 50 items. F°. Half calf.

Manuscripts, at the Lenox branch.

Japan.

Prix courants des principales marchandises dans les grandes villes, 1875–86. (Résumé stat. de l'empire du Japon. no. 3.)

Continued in each number thereafter.

Netherlands.

Muller (S.) Rekeningen van den Drost van Twenthe over 1336–1339. (Bijdragen en mededeelingen van het Hist. Genoot. te Utrecht. *'sGravenhage*, 1897. 8°. v. 18, pp. 123–180.)

Eenige marktprijzen in mei 1852 en 1853. (De Economist. v. 2, pp. 213–14. *Amsterdam*, 1853. 8°.)

Eckstein (D.) Trade, commerce, etc., of Amsterdam and in the Netherlands in 1885. 1887. (U. S. Cons. Rpts. v. 22, pp. 712–769. *Washington*, 1887. 8°.)

With tables of lowest and highest prices of rye and wheat for 1877–1886, and for maize, 1881–83, monthly prices in 1886 for Banka and Billiton tin, weekly prices for cotton in Amsterdam, 1886, comparative statements of prices for sugar in 1885 and 1886.

Philippine Islands.

Prices of commodities and rates of wages in Manila. (Bull. Dept. of Labor. v. 6, no. 32, pp. 29–42. *Washington*, 1901.)

Russia.

Russia.—*Ministerstvo Finansov.—Dept. torgovli i manufactur.* **Сводъ товарныхъ цѣнъ на главныхъ рынкахъ Россіи за 1890–96.** Prix de marchandises sur le principaux marchés de la Russie pour les années 1890–96. *St. Petersburg*, 1897. xii, 18 pp. 4°.

Fluctuations (Les) des prix sur les principaux marchés de Russie de 1893 à 1898. (La Réforme Économique. 8. année, pp. 1111. *Paris*, 1899. F°.)

South Africa.

Stowe, (J. G.) Prices in South Africa, 1898. (U. S. Cons. Rpts. v. 59, pp. 25–26. *Washington*, 1898. 8°.)

Sweden.

Arosenius (Carolus Fredr[icus]). *De difficili pretiorum veteris ævi in Svecia æstimatione . . . *Upsaliæ*, 1800. 8 pp. 12°.

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Switzerland.

Müller (C. K.) Beitrag zur Geschichte der Statistik der Güterpreise des Kantons Zürich. (Zeitschr. Schweiz. Stat. 10. Jahrg. 1874, 53–88.)

Turkey.

Heap (G. H.) Principal exports of Turkey, July, 1881. (U. S. Cons. Rpt. no. 10, pp. 305–317. *Washington*, 1881. 8°.)

Pp. 306–307 prices of grains and food stuffs.

—— Prices at and freights to and from Constantinople, July, 1881. (U. S. Cons. Rpt. 10, pp. 322–323. *Washington*, 1881. 8°.)

United States.

Hazard (T.) Sundry prices taken from ye acct. book of T. Hazard, son of Robt. (called College Tom). Shewing the depreciation of an arbitrary currency, as compared with the actual value of corn and other produce . . . presented to the members of the Washington Co. Agricultural Soc., upon the occasion of its 18. annual fair, by R. Hazard, prest. of the Soc. *Wakefield, R. I.: Times Print*, 1892. 12 l. 8°.

Van Cortlandt Account Books. Eighteen mercantile account books of New York, Albany, New Jersey merchants, relating mainly to the general business affairs of the Van Cortlandts and other merchants, and ranging in date between 1700 and 1839.

Manuscripts, at the Lenox branch. A detailed analysis is given in the *Bulletin*, v. 2, p. 70.

New York Colonial Troops. Pay rolls and subsistence accounts, 1756–1758. 6 documents.

Manuscripts, at the Lenox branch.

New Orleans. Journal de dépense de la Colonie, 1766. 174 ll. F°.

Manuscript, at the Lenox branch.

Bancker Barrack Accounts. *New York*, 1768–1774. About 100 pp.

Manuscripts, at the Lenox branch.

Great Britain.—*Army.* Subsistence and clothing accounts, receipts for rations, etc., chiefly during the period of the American revolution. About 100 documents.

Manuscripts, among the Myers, Emmet, and miscellaneous collections at the Lenox branch.

Lawrason & Fowle. Mercantile account books, Virginia, about 1770–1830. 90 vols. F°.

Manuscripts, at the Lenox branch.

Boudinot (Elias). The household expenses of President Elias Boudinot as furnished by the agent of Congress 1783. From the Boudinot papers. Thomas Addis Emmet, M.D. *New York*, 1890. F°. Half morocco.

Manuscript, with printed title-page, as above, in the Emmet collection at the Lenox branch.

Jefferson (Thomas). Diary, 1791–1803, containing notes on domestic affairs and household expenses. 192 pp. 12°. Calf.

Manuscript, at the Lenox branch.

Duyckinck Account Books. Day books and journals of Evert Duyckinck and others, New York, 1795–1852; also cash books, bundles of bills, accounts, checks, etc. 19 vols. F°.

Manuscripts, at the Lenox branch.

Relative prices in gold, by groups of articles, 1840–91. (U. S. Monthly Summary, etc. Ser. 1894/5, pp. 1247. *Washington*, 1895.)

Movement of prices, 1840–1899, from Sauerbeck's tables, London Economist, and reports of U. S. Senate and the department of labor on prices. (Monthly Summary of Commerce and Finance of the U. S. ser. 1899–1900, no. 11, pp. 3129–3146. *Washington*, 1900.)

United States.—*Treasury Department.*—*Bureau of Statistics.* Movement of prices, 1840–1894; [compiled from] tables of [A.] Sauerbeck, London Economist, U. S. Senate. Chart. *Washington*, 1895. 4°.

True (A) picture of Henry C. Carey. Who attempts to deceive the public? *n. p.* [1850?] 4 pp. 12°.

Wilder (D.), *Jr.* High prices. (Hunt's Merchants' Magazine. v. 36, pp. 53–55. *New York*, 1856. 8°.)

Comparative prices of merchandise [about the first of January,] 1860, 66, 74, 77–84, 88–92, 94–1901. (Financial Review. 1878, pp. 14 and passim. *New York*, 1878–1901. F°.)

Schwab (John Christopher.) Prices in the Confederate States, 1861–65. 1 tab. (Polit. Sci. Quar. v. 14, pp. 281–304. *Boston*, 1899.)

—— Prices in South during the Civil War. (American Economic Association. (Economic Studies. v. 4, pp. 91–98. *New York*, 1899. 8°.)

Alabama.—*Impressments, Board of Commissioners for.* [Schedule of prices, dated 1 June, 1864, to continue in effect until August, 1864, presenting the minimum prices for all articles, including labor, appraised at all cities and places of sale in the state.] [*Montgomery*, 1864.] Broadside. F°.

Range of prices. (Banker's Magazine. v. 19, pp. 361–401. *New York*, 1865. 8°.)

Walley (S. H.) Causes and remedy of high prices. (Banker's Magazine. v. 22, pp. 9–16. *New York*, 1868. 8°.)

Young (Edward). The cost of labor and subsistence in the United States for 1869, as compared with previous years. *Washington*, 1870. 8°.

Taussig (F. W.) Fall in prices from 1873 to 1874. (Science. v. 6, pp. 365–366. *New York*, 1885. 8°.)

Benner (S.) Benner's prophecies of future ups and downs in prices. What years to make money on pig-iron, hogs, corn, and provisions . . . *Cincinnati: The Author*, 1876. 131 pp. 24°.

—— —— 1879. ix, 10–11, 13a–13c, 13–131 pp. 2. ed. 16°.

Solid bottom in prices. (Banker's Magazine. v. 33, pp. 355–359. *New York*, 1879. 8°.)

Prices of commodities in Illinois and elsewhere. (Illinois Labor Stats. Bur. 3. bienn. rpt., 1884, p. 338.)

With comparative tables for Illinois, Massachusetts, and Great Britain.

United States.—*Statistics Bureau.* Tables showing the prices of commodities, also the immigration into the United States for a series of years, comprising statements nos. 17 to 25, inclusive, of the quarterly report no. 3, series 1885–86 of the Chief of the Bureau of Statistics. *Washington: Govt. Prtg. Office*, 1886. v, 528–598 pp. 8°. (Treasury Dept.)

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History, etc., United States, cont'd.

Falkner (Roland P.) Wholesale prices: 1890 to 1899. (Bull. Dept. of Labor. no. 27, pp. 237–313. *Washington*, 1900.)

Prices in the United States under the McKinley Act. (Quarterly Journal of Economics. v. 7, pp. 103–106. *Boston*, 1892. 8°.)

United States.—*Finance Committee.* Retail prices and wages. Report by Mr. Aldrich, from the committee on finance, July 19, 1892. *Washington: Govt. Prtg. Office*, 1892. 3 v. 8°.

—— Same. 52. Cong., 1. sess. Senate reports. v. 6–8.

Aldrich ([N. W.]) Report . . . on wholesale prices, wages, and transportation, March 3, 1893. *Washington: Govt. Prtg. Office*, 1893. 4 v. 8°. (U. S. Finance Committee.)

—— Same. 52. Cong. 2. sess. Sen. rpt., 1394.

Taussig (F. W.) Results of the recent investigations on prices in the United States. (Yale Review, v. 2, No. v., pp. 221–247. *New Haven*, 1893. 8°.)

—— Prices in the United States. Results of recent investigations. (American Statistical Association. Publications. v. 3, pp. 487–491. *Boston*, 1894. 8°.)

Clapp & Company, New York. Weekly market letters, valuable information of leading American exchanges, 1893 . . . *New York: Exchange Print Co.*, 1894. 328 pp. sq. 4°.

[**Tables** of prices of various commodities for a variety of years.] (U. S. Statistical Abstract, 1893.)
Continued each year thereafter.

Comparative prices of leading articles [in U. S. markets, 1893–94]. (U. S. Monthly Summary, etc., ser. 1893–4, pp. 995–1003, and following ser.)

—— wholesale prices of leading articles in U. S. markets. [Statistical tables published monthly.] (Monthly summary of commerce and finance of the U. S., Aug., 1893–date. *Washington*, 1893–date.)

Andrews (E. Benjamin.) The fall of prices; the cause and the cure. An address before the Manufacturers' Club, Philadelphia, Feb. 18, 1894. [*Washington: Govt. Prtg. Off.*] 1895. 13 pp. 8°. (U. S. 53. Cong. 3. sess. Senate. mis. doc. 136.)

Movement of prices. (U. S. Monthly Summary, etc., ser. 1894/5, pp. 1231–1248. *Washington*, 1895.)

Farnam (H. W.) Some effects of falling prices. (Yale Review. v. 4, pp. 183–201. *New Haven*, 1895. 8°.)

Williams (A.) Prices, Reasons why they are low. (Engineering Magazine. v. 8, pp. 781–788. *New York*, 1895. 8°.)

Commons (John R.) Wholesale prices, 1896 to 1900, comparison with the period 1878 to 1882. Tables. (Quar. bull. Bureau of Econ. Research. no. 2, October, 1900, pp. 35–54. *New York*, 1900.)

Gordon. Falling prices. (Arena. v. 17, pp. 633–640, 940–946. *Boston*, 1897. 8°.)

Stability of Prices. (Yale Review. v. 6, pp. 81–3; 7, pp. 97–99. *New Haven*, 1897. 8°.)

George (L. F.) Falling prices and the remedy. *Boston: George Book Publishing Co.*, 1898. 1 p.l., vi, 1 l., 231 pp., 1 port. 12°.

Mayo-Smith (Richmond). Movement of prices. (Polit. Sci. Quar. *New York*, 1898. 8°. v. 13, pp. 477–494.)

Iron and steel, leather, cotton, woolens, boots and shoes. (Dun's Review. v. 6–date, passim. *New York*, 1898–date. 4°.)

Benner (S.) Benner's prophecies of future ups and downs in prices; what years to make money on pig-iron, hogs, corn, and provisions, . . . with forecast for 1899. *Cincinnati: R. Clarke Co.*, 1899. ix, 10–233 pp. 12. ed. 8°.

Kinder (Francis Shanor). The effects of recent changes in monetary standards upon the distribution of wealth. (Amer. econ. assoc. Econ. studies. v. 4, p. 409–499. *New York*, 1899.)

Staple prices highest for five years. (Bradstreet's. *New York*, 1899. F°. v. 27, p. 18.)

Mayo-Smith (Richmond). Prices and individual welfare. (Polit. Sci. Quar. v. 15, pp. 14–36. *Boston*, 1900.)

Dun's index number. (Dun's Review, Sept. 7, 1901; Jan. 4, Feb. 8, 1902. *New York*, 1901–1902, 4°.)

—— *Alaska.*

McCook (J. C.) Prices in Dawson City, 1898. (U. S. Cons. Rpts. v. 59, pp. 323–324. *Washington*, 1898. 8°.)

—— *Boston.*

Cook (W. F.) Retail prices in Boston and vicinity. (American Statistical Society. Publications. v. 2, pp. 116–119. *Boston*, 1891. 8°.)

—— *Detroit.*

Prices current at Detroit in summer of 1817. (Michigan. Labor and Stats. Bur. 10 ann. rpt., 1893, pp. 1190.)

—— *Massachusetts.*

Wright (C. D.) History of wages and prices in Massachusetts: 1752–1883. Including comparative wages and prices in Massachusetts and Great Britain: 1860–83. [Being pts. III. and IV. of the 16. annual report of the Mass. Bureau of statistics of labor.] *Boston: Wright & Potter Print. Co.*, 1885. 315, 57 pp. 8°.

Wadlin (Horace G.) Comparative wages and prices: 1860–1897. *Boston: Wright & Potter Prtg. Co.*, 1898. vi, 41 pp. 8°. (Massachusetts. Labor Statistics Bureau.)

—— Graded prices. *Boston: Wright & Potter, state prtrs.*, 1901. viii, pp. (1) 251–792. pap. 8°. (Mass. Labor Statistics Bureau.)
From the 31 ann. rpt. of the Mass. Bureau of Stats. of Labor.

—— *New York.*

Course (The) of prices in New York, 1825–43, and 1860–76, with various collateral branches of deductive results. (Economist, v. 34, pp. 1110–13. *London*, 1876. F°.)

Table showing the percentage of yearly prices to the mean price of staple articles in the New York market, 1825–80. (U. S. Finance Report, 1881, pp. 312–321.)
Continued in the reports for 1882 and 1883, and in the Mint report for 1884. See Qr. Jol. Economics, v. 1, p. 397.

Prices (Wholesale) current at New York, weekly. (The Commercial and Financial Chronicle. v. 1–29, passim. *New York*, 1865–79. F°.)
From 1877 given monthly.

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History, etc., United States, cont'd.

Prices of merchandise of principal articles of commerce in New York for the past eight years. (The Commercial and Financial Chronicle. v. 12, pp. 103. *New York*, 1871. F°.)

INDEX NUMBERS.

[**Fleetwood** (W.), *successively bishop of Asaph and of Ely.*] Chronicon preciosum; or, An account of English money, the price of corn, and other commodities, for the last 600 years. In a letter to a student in the University of Oxford. [By William Fleetwood.] *London: C. Harper*, 1707. 8 p. l., 181 pp., 3 l. 12°.

Dutot ( ). Réflexions politiques sur les finances et le commerce. *La Haye*, 1738. v. 1, pp. 365–377. 18°.

Dupré de Saint-Maur (N. F.) Essai sur les monnoies, ou reflexions sur le rapport entre l'argent et les denrées. *Paris*, 1746. pp. 5–6, 19–104, 161–182. 4°.

Evelyn (*Sir* George Schuckburgh). A Table exhibiting the Prices of various Necessaries of Life, together with that of Day Labour, in sterling Money, and also in Decimals, at different Periods, from the Conquest to the present Time, derived from respectable Authorities; with the Depreciation of the Value of Money inferred therefrom. To which is added the Mean Appreciation of Money, according to a Series of Intervals of 50 Years, for the first 600 Years; and, during the present Century, at shorter Periods, deduced by Interpolation. (Opposite p. 176 of An Account of some Endeavours to ascertain a Standard of Weight and Measure. In Royal Society Philosophical Transactions, 1798, pp. 133–182. 4°.)

Young (Arthur). An enquiry into the progressive value of money in England, as marked by the price of agricultural products; with observations on Sir G. Schuckburgh's Table of appreciation . . . *London: B. Macmillan*, 1812. viii, 65–137 pp. 8°.

Lowe (Joseph). The present state of England in regard to agriculture, trade and finance. *London*, 1822. pp. 261–291; appendix, pp. 85–101. 8°.

Scropo (G. Poulett). Principles of political economy . . . applied to the present state of Britain. *London*, 1833. pp. 405–408. 12°.

Leber (J. M. C.) Essai sur l'appreciation de la fortune privée au moyen age. *Paris*, 1847. 2. ed. 335 pp. 8°.

Walsh (R. H.) Elementary treatise on metallic currency. *Dublin*, 1853. pp. 94–96. 8°.

Soetbeer (A.) Das Gold. (Die Gegenwart. *Leipzig*, 1856. pp. 587–588.)

Levasseur (E.) La question de l'or. *Paris*, 1858. 8°. pp. 179–195.

Maclaren (J.) Sketch of the history of the currency. *London*, 1858. pp. 311–312. 8°.

Newmarch (W.) Mercantile reports of the character and results of the trade of the United Kingdom during the year 1858; with reference to the progress of prices 1851–9. (Royal Statistical Society. Journal. v. 22, pp. 76–100. *London*, 1859. 8°.)

—— Results of the trade of the United Kingdom during the year 1859; with statements and observations relative to the course of prices since the year 1844. (Royal Statistical Society. Journal. v. 23, pp. 76–110. *London*, 1860. 8°.)

—— Commercial history and review of 1863. (Economist. Feb. 20, 1864, pp. 4, 40–46. *London*, 1864. F°.)

Continued annually thereafter.

Lespeyres (E.) Hamburger Waarenpreise 1851–63 und die Californisch-Australischen Goldentdeckungen seit 1848. (Jahrbücher für Nationalökonomie. v. 3, pp. 81–118, 209–236. *Jena*, 1864. 8°.)

Jevons (W. S.) A serious fall in the value of gold ascertained, and its social effects set forth. 1863. (In his Investigations in currency and finance. *London*, 1884. pp. 15–118. 8°.)

—— The variation of prices and the value of the currency since 1782. (Royal Statistical Society. Journal. June, 1865. *London*. 8°.)

—— —— (In his Investigations in currency and finance. *London*, 1884. pp. 119–150.)

—— The depreciation of gold. (Economist. 8. May, 1869. *London*, 1869. F°.)

—— —— (In his Investigations in currency and finance. *London*, 1884. pp. 151–159. 8°.)

Drobisch (M. W.) Über einige Einwürfe gegen die in diesen Jahrbüchern veröffentlichte neue Methode, die Veränderungen der Waarenpreise und des Geldwerthes zu berechnen. (Jahrbücher für Nationalökonomie. v. 16, pp. 416–427. *Jena*, 1871. 8°.)

—— Über Mittelgrössen und die Anwendbarkeit derselben auf die Berechnung des Steigens und Sinkens des Geldwerths. (Berichte der K. Sächs. Ges. d. Wissenschaften. 1871. Mathemat.-phys. Cl. Heft 1.)

—— Ueber die Berechnung der Veränderungen der Waarenpreise und des Geldwerths. (Jahrbücher für Nationalökonomie und Statistik. v. 16, pp. 143–56. *Jena*, 1870. 8°.)

Laspeyres (E.) Die Berechnung einer mittleren Waarenpreissteigerung. (Jahrbücher für Nationalökonomie. v. 16, pp. 296–314. *Jena*, 1871. 8°.)

Paasche (H.) Über die Preisentwicklung der letzten Jahre nach den Hamburger Börsennotirungen. (Jahrbücher für Nationalökonomie und Statistik. v. 23, pp. 166–78. *Jena*, 1874. 8°.)

Walker (A.) The science of wealth. *Boston*, 1874. 7. ed. pp. 177–178, 481, 488.

Hanauer (A.) Études économiques sur l'Alsace ancienne et moderne. *Paris*, 1878. v. 2, pp. 601–609.

The "Conclusion" gives a "resumé général" of the "pouvoir de l'argent en general."

Paasche (H.) Studien über die Natur- der Geldentwerthung und ihre praktische Bedeutung in den letzten Jahrzehnten. *Jena*, 1878. 173 pp. (Staatswissenschaftliches Seminar, Halle a. S. Sammlung nationalökonomischer u. statistischer Abhandlungen. Bd. 1.)

Rise (The) in the value of gold. (Banker's Magazine. *London*, 1878. pp. 842–848. 8°.)

Bourne (S.) On some phases of the silver-question. (Royal Statistical Society. Journal, June, 1879. pp. 413–417. *London*. 8°.)

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Index Numbers, cont'd.

Foville (A. de). La mouvement des prix dans le commerce extérieur de la France. (L'Économiste français. July 5th, 1879, pp. 3–5; July 19th, 1879, pp. 64–65; Nov. 1st, 1879, pp. 533–534. Second series, April 29th, 1882, pp. 503–505; June 17th, 1882, p. 504. *Paris.* 8°.)

Giffen (R.) Report to the secretary of the Board of Trade on the prices of exports of British and Irish produce in the years 1861–1877. (Great Britain, Parliamentary documents, Sess. 1879, c. 2247, pp. 2–15. F°.)

—— On the fall of prices of commodities in recent years. (Royal Statistical Society. Journal, March, 1879. *London.* 8°.)

—— —— (In his Essays in finance. *London*, 1880. 8°. Sec. I, The extent of the fall. pp. 312–322.)

—— Report to the secretary of the Board of Trade on the prices of exports of British and Irish produce, and the prices of imports, in the years 1861–78. (Parliamentary documents, Session 1880, c. 2484, pp. 3–27.)

Burchard (H. C.) (In U. S.—Treasury Dept. Annual report of the Secretary on the state of the finances. 1881, pp. 312–321; 1882, pp. 252–254; 1883, pp. 316–318. Also, in U. S. Mint. Report of the Director on the production of precious metals in the U. S., 1884. pp. 497–502.)

Fauveau (G.) Comparison du pouvoir de la monnaie à deux époques différents. (Journal des Economistes. June, 1881. pp. 354–359. *Paris.* 8°.)

Borght (R. v. d.) Die Preisentwickelung während der letzten Decennien nach der Hamburger Börsennotirungen. (Jahrbücher f. Nationaloekonomie . . . N. F. v. 5, pp. 177–185. *Jena*, 1882. 8°.)

Sidgwick (H.) On the definition and measure of value. (In his Principles of political economy. *London*, 1883. 8°. Book 1, Chapter 2, pp. 52–69.)

Edgeworth (F. Y.) On the method of ascertaining a change in the value of gold. (Royal Statistical Society. Journal. v. 46, pp. 714–718. *London*, 1883. 8°.)

Hansard (L.) On the prices of some commodities during the decade 1874–83. Paper read before the Bankers' Institute, 1884. (Institute of Bankers. Journal. Jan., 1885, pp. 1–42. *London.* 8°.)

Giffen (R.) Report to the secretary of the Board of Trade on recent changes in the amount of the foreign trade of the United Kingdom and the prices of exports and imports. (Parliamentary documents, Sess. 1885, c. 4456, pp. iii–viii, 1–53.)

—— Trade depression and low prices. (Contemporary Review, June, 1885. *London.* 8°.)

—— —— (In his Essays in finance. 2. Ser. *London*, 1886. 8°. Sec. 3, The history of prices, pp. 16–22.)

Massachusetts.—*Bureau of Statistics.* 6th annual report. *Boston*, 1885. 8°. pp. 154–156.

Mulhall (M. G.) History of prices since the year 1850. *London*, 1885. 190 pp. 12°.

—— On the variations of price-levels since 1850. (Brit. Assoc. for the Adv. of Sci. 55th meeting, 1885. *London*, 1886. 8°. pp. 1157–1158.)

Bourne (S.) On the use of index numbers in the investigation of trade statistics. (Brit. Assoc. for the Adv. of Sci. Report of 55th meeting. *London*, 1886. 8°. pp. 859–873.)

Newcomb (S.) The measure of value by an absolute standard. (In his Principles of political economy. *New York*, 1886. 8°. pp. 205–214.)

Walras (L.) D'une méthode de régularisation de la variation de valeur de la monnaie. (Soc. vaudoise de Sciences naturelles. Bulletin. *Lausanne*, 1885–86. 8°. v. 21, no. 92, pp. 71–92.)

—— —— (In his Études d'économie politique appliquée. *Lausanne*, 1898. 8°. pp. 26–49.

Simon (A.), *and* **Walras** (L.) Contributions à l'étude des variations des prix depuis la suspension de la frappe des écus d'argent. (Société vaudoise des Sciences naturelles. Bulletin. *Lausanne*, 1885–86. 8°. v. 21, no. 92, pp. 93–103.)

—— —— (In: Walras (L.) Études d'économie politique appliquée. *Lausanne*, 1898. 8°. pp. 49–61.)

Comparison of alterations of prices in England, France, the United States, Germany, and India, with remarks on the exchange, and other matters connected with the standard of value. Methods of investigation employed. (In: Third report of roy. com. on depression of trade and industry, pp. 328–342. Great Britain. Parl. Papers. Sess. 1886. v. 23.)

Palgave (R. H. I.) Currency and standard of value in England, France, and India, and the rates of exchange between these countries. (Great Britain. Royal Commission on Depression of Trade and Industry. Memorandum. *London*, 1886. 3d Report, Appendix B, pp. 312–390. *London*, 1885–86. F°.)

Sauerbeck (G.) Prices of commodities and the precious metals. (Royal Statistical Society. Journal. Sept., 1886, pp. 581–631. Appendix, pp. 632–648. *London.* 8°.)

Coggeshall (F.) The arithmetic, geometric, and harmonic means. (Quar. Jour. of Economics. Oct., 1886, pp. 83–86. *Boston.* 8°.)

Beaujon (A.) Sur la question des "index numbers." (Institut international de Statistique. Bulletin, 1887. pp. 106–114, 115–116, 117–126. *Rome.* 4°.)

Conrad (J.) Beiträge zur Beurteilung der Preisreduktion in den 80er Jahren. (Jahrbücher für Nationaloekonomie und Statistik, 1887. N. F. Bd. 15, pp. 322–331. *Jena.* 8°.)

Edgeworth (F. Y.) The choice of means. (London, Edinburgh and Dublin Philosophical Magazine. Sept., 1887. pp. 268–271. *London.* 8°.)

—— Memorandum of the secretary of the committee [appointed by the Brit. Assoc. for the Adv. of Sci. for the purpose of investigating the best methods of ascertaining and measuring variations in the value of the monetary standard]. (Brit. Assoc. for the Adv. of Sci. Report of 57th meeting, 1887. *London*, 1888. 8°. pp. 254–301.)

Giffen (R.) Evidence before the Royal Commission on Gold and Silver, 1st report. *London*, 1887. 4°, pp. 663–793; F°, pp. 34–42.)

—— Index numbers. (Institut international de Statistique. Bulletin. pp. 126–131. *Rome*, 1887. 4°.)

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Index Numbers, cont'd.

Kral (F.) Geldwert und Preisbewegung im Deutschen Reiche, 1871–1884. *Jena*, 1887. 8°. pp. 63–111. (Staatswissenschaftliche Studien. Heft 3.)

Marshall (A.) Remedies for fluctuations of prices. (Contemporary Review. March, 1887. pp. 371–375. *London*. 8°.)

Nicholson (J. S.) The measurement of variations in the value of the monetary standard. Royal Statistical Society. Journal. March, 1887. *London*. 8°.)

—— —— (In his Treatise on money. *Edinburgh*, 1888. 12°. pp. 298–331.)

Report [First–Fourth] of the Committee, consisting of Mr. S. Bourne, Professor F. Y. Edgeworth (Secretary), Professor H. S. Foxwell, Mr. Robert Giffen, Professor Alfred Marshall, Mr. J. B. Palgrave, and Professor H. Sidgwick, appointed for the purpose of investigating the best methods of ascertaining and measuring variations in the value of the monetary standard. (Report of the Brit. Assoc. for the Adv. of Sci., 1887–1890. 8°.)

"List of the principal authorities cited," 1887, pp. 300–301.

Rogers (J. E. T.) On prices generally between 1583–1702. (In his History of agriculture and prices in England. *Oxford*, 1887. 8°. v. 5, pp. 778–800.)

Sauerbeck (A.) [Evidence in First Report of Roy. Comm. on recent changes in relative values of the precious metals. *London*, 1887. pp. 47–57.] (Br. Parl. Papers. 1887. v. 22.)

Bourne (S.) Index numbers as illustrating the progressive exports of British produce and manufactures. (Brit. Assoc. for the Adv. of Sci. Report of 58th meeting, 1888. *London*, 1889. 8°. pp. 536–540.)

Edgeworth (F. Y.) Some new methods of measuring variations in general prices. (Royal Statistical Society. Journal. June, 1888. pp. 346–368. *London*. 8°.)

Nasse (E.) Das Sinken der Warenpreise während der letzten fünfzehn Jahre. (Jahrbücher für Nationaloekonomie und Statistik, 1888. N. F. Bd. 17, pp. 51–53. *Jena*. 8°.)

Andrews (E. B.) An honest dollar. (Amer. Econ. Assoc. Publ. v. 4, no. 6, pp. 38–39. *New York*, 1889. 8°.)

Edgeworth (F. Y.) Appreciation of gold. (Quarterly Journal of Economics. Jan., 1889. pp. 151–169. *Boston*. 8°.)

—— Memorandum on the accuracy of the proposed calculations of index numbers attached to the 2d report of the committee [appointed for the purpose of investigating the best methods of ascertaining and measuring variations in the value of the monetary standard]. (Brit. Assoc. for the Adv. of Sci. Report of 58th meeting, 1888. *London*, 1889. 8°. pp. 188–219.)

McAlister (Donald). "The law of the geometric mean." (Royal Society of London. Proceedings. v. 29, pp. 367–376. *London*, 1889. 8°.)

Bourne (S.) Index numbers as applied to the statistics of exports and imports. (Brit. Assoc. for the Adv. of Sci. Report of 59th meeting, 1889. *London*, 1890. 8°. pp. 696–701.)

Conrad (J.) Die Entwickelung des Preisniveaus in den letzten Decennien und der deutsche Getreidebedarf in den letzten Jahren. (Jahrbücher für Nationaloekonomie und Statistik, 1890. 3. Folge. Bd. 17. pp. 642–660. *Jena*. 8°.)

Edgeworth (F. Y.) Memorandum attached to the 3d report of the committee [appointed for the purpose of investigating the best methods of ascertaining and measuring variations in the value of the monetary standard]. (Brit. Assoc. for the Adv. of Sc. Report of 59th meeting, 1889. *London*, 1890. 8°. pp. 133–164.)

Nasse (E.) Das Geld und Münzwesen. (Schönberg's Handbuch der politischen Oekonomie. *Tübingen*, 1890. v. 2, pp. 331–332.)

Sauerbeck (A.) Prices of commodities in 1888 and 1889. (Royal Statistical Society. Journal. March, 1890. v. 53, pp. 141–145. *London*. 8°.)

Westegaard (H.) Die Grundzüge der Theorie der Statistik. (*Jena*, 1890. 8°. pp. 218–220.)

Andews (E. B.) Institutes of economics. *Boston*, 1891. pp. 141–142. 8°.

Sauerbeck (A.) Prices of commodities in 1890. (Royal Statistical Society. Journal. March, 1891. pp. 128–137. *London*. 8°.)

Falkner (R. P.) Report of the statistician. (U. S. 52d Congress, 1. sess. Report of the Committee on Finance. v. 1, pp. xi–c. *Washington*, 1892. 8°.)

—— —— (U. S. 52d Congress, 2. Sess. Report of the Committee on Finance. v. 1, pp. 27–337. *Washington*, 1893. 8°.)

Foville (A de). Prix. (Nouveau dictionnaire d'économie politique. *Paris*, 1892. 8°. v. 2, pp. 607–612.)

Walras (L.) Geometrical theory of determination of prices. (Annals of the American Academy of Political Science. v. 3, pp. 45–64. *Philadelphia*, 1892. 8°.)

Lindsay (S. McC.) Die Preisbewegung der Edelmetalle seit 1850. *Jena*, 1893. 8°. (Staatswissenschaftliches Seminar, Halle a./S. Sammlung nationalökonomischer und statistischer Abhandlungen. Bd. 7, no. 3.)

Sauerbeck (A.) Prices of commodities during the last seven years. (Royal Statistical Society. Journal. June, 1893. pp. 215–238; Appendix, pp. 239–247, 254. *London*. 8°.)

Zuckerkandl (R.) Die statistische Bestimmung des Preisniveaus. (Handwörterbuch der Staatswissenschaften. v. 5, pp. 242–251. *Jena*, 1893. 4°.)

Avenel (G. d'). Histoire économique de la propriété, des salaires, des denrées, et de tous les prix en général depuis l'an 1200 jusqu'en l'an 1800. *Paris*, 1894–98. 4 v. 4°. v. 1. pp. 6–13, 27, 32, 137.

Edgeworth (F. Y.) Average. Index numbers. (Palgrave, R. H. I.) Dictionary of political economy. *London*, 1894–96. 8°. v. 1, p. 74; v. 2, pp. 384–387.)

—— Recent writings on index numbers. (Economic Journal, 1894. pp. 158–165. *London*. 8°.)

Sauerbeck (A.) Prices of commodities in 1893. (Royal Statistical Society. Journal. March, 1894. pp. 172–183. *London*. 8°.)

Digitized by Google

Index Numbers, cont'd.

Zuckerkandl (R.) Le mesure des transformations de la valeur de la monnaie. (Rev. d'écon. politique. 1894. pp. 237–253. *Paris.* 8°.)

Avenel (G. d'). La fortune privée à travers sept siècles. *Paris*, 1895. 16°. pp. 4–14, 37.

Bowley (A. L.) Comparison of the rates of increase of wages in the United States and in Great Britain, 1860–91. Paper read before the British Association . . . 1895. (Economic Journal. vol. 5, pp. 369–383. *London*, 1895. 8°.)

A summary is given in the Report of the British Association for the advancement of science, 1895, pp. 775–776.

Denis (H.) La depression économique et sociale et l'histoire des prix. *Ixelles-Bruxelles*, 1895. 8°. pp. 9–34.

Fonda (A. I.) The standard of value. (In his Honest money. *New York*, 1895. 12°. pp. 158–161, 165.)

Fraser (J. A.), *and* **Sergel** (C. H.) Sound money. *Chicago*, 1895. p. 171.

Pierson (N. G.) Index numbers and the appreciation of gold. (Economic Journal. Sept., 1895. pp. 329–335. *London.* 8°.)

Sauerbeck (A.) Prices of commodities in 1894. (Royal Statistical Society. Journal. March, 1895. pp. 140–154. *London.* 8°.)

—— Index numbers of prices. (Economic Journal, June, 1895. pp. 161–174. *London.* 8°.)

Taussig (F. W.) Results of recent investigations on prices in the United States. (Inst. internat. de Statistique. Bulletin, 1895. pp. 22–32. *Rome.* 4°.)

Whitehead (T. H.) The critical position of British trade with Oriental countries. (Royal Colonial Institute. Proceedings. *London*, 1895. 8°. v. 26, pp. 105–163.)

Wiebe (G.) Zur Geschichte der Preisrevolution des 16. und 17. Jahrhunderts. *Leipzig*, 1895. 8°. pp. 163–174; tables, pp. 369–386.

Bourguin (M.) La mesure de la valeur et la monnaie. *Paris*, 1896. 8°. pp. 134–139.

Edgeworth (F. Y.) A defence of index numbers. (Economic Journal. March, 1896. pp. 132–142. *London.* 8°.

Minnesota.—*Bureau of Labor.* Annual report, 5th. pp. 26–30. *St. Paul*, 1896. 8°.

Oker (C. W.) The fallacy of index-numbers. (Journal of Political Economy. v. 4, pp. 515–522. *Chicago*, 1896. 8°.)

Pierson (N. G.) Further considerations on index-numbers. (Economic Journal. v. 6, pp. 127–131. *London*, 1896. 8°.)

Price (L. L.) Money and its relations to prices —being an enquiry into the causes, measurement, and effects of changes in general prices. *London*, 1896. 12°. pp. 9–36.

Sauerbeck (A.) Prices of commodities in 1895. (Royal Statistical Society. Journal. March, 1896. pp. 186–201. *London.* 8°.)

Smith (J. A.) The multiple money standard. (Amer. Acad. of Polit. and Soc. Sci. Publications. 1896. pp. 27–30. *Philadelphia.* 8°.)

Atkinson (F. J.) Silver prices in India. (Royal Statistical Society. Journal. March, 1897. pp. 84–147. *London.* 8°.)

Pomeroy (E.) The multiple standard for money.. (Arena. Sept., 1897. pp. 331–333. *Boston.* 8°.)

Sauerbeck (A.) Prices of commodities in 1896. (Royal Statistical Society. Journal. March, 1897. pp. 180–194. *London.* 8°.)

Mayo-Smith (R.) Movements of prices. (Political Science Quarterly. Sept., 1898. pp. 477–494. *New York.* 8°.)

Parsons (F.) Rational money. A national currency intelligently regulated in reference to the multiple standard. *Philadelphia*, 1898. 8°. pp. 113–138.

Sauerbeck (A.) Prices of commodities in 1897. (Royal Statistical Society. Journal. March, 1898. pp. 149–162. *London.* 8°.)

Walras (L.) Études d'économie politique appliquée. *Lausanne*, 1898. 8°.

Wicksell (K.) Geldzins und Güterpreise. *Jena*, 1898. 8°. pp. 6–16.

Sauerbeck (A.) Prices of commodities in 1898. (Royal Statistical Society. Journal. March, 1899. pp. 179–193. *London.* 8°.)

Falkner (R. P.) Wholesale prices, 1890 to 1899. (U. S. Dept. of Labor. Bulletin, no. 27. pp. 237–313. *Washington*, 1900. 8°.

Nos "Index Numbers." (La Reforme Économique. 9. année, pp. 5–6. *Paris*, 1900. F°.)

Padan (R. S.) Prices and index numbers. (Journal of Political Economy. March, 1900. pp. 171–202. *Chicago.* 8°.)

Sauerbeck (A.) Prices of commodities in 1899. (Royal Statistical Society. Journal. March, 1900. pp. 92–106. *London.* 8°.)

Adams (T. S.) Index numbers and the standard of value. (Jour. Polit. Econ. v. 10, pp. 1–31. *Chicago*, 1901.)

Walsh (Correa Moylan). The measurement of general exchange-value. *New York: Macmillan*, 1901. xiv (ii), 574 pp. 8°.

Pages 553–574 contain a chronological "Bibliography of works dealing with the measurement of the exchange-value of money by comparing many prices."

Prices and Money.

See also Bimetallism, Money, etc., in the Index Catalogue of the library.

Schoenhof (J.) A history of money and prices: being an inquiry into their relations from the thirteenth century to the present time . . . *New York: G. P. Putnam's Sons*, 1896. xvii, 352 pp. 12°. (Questions of the day, no. 86.)

Bonn (M. J.) Spaniens Niedergang während der Preisrevolution des 16. Jahrhunderts. Ein induktiver Versuch zur Geschichte der Quantitätstheorie. *Stuttgart: J. G. Cotta*, 1896. viii, 199 pp. 8°. (Muenchener volkswirtschaftliche Studien 12.)

Wiebe (Georg). Zur Geschichte der Preisrevolution des XVI. und XVII. Jahrhunderts. 419 pp. (Staats-u. socialwiss. Beitr. *Leipzig*, 1894. 8°. v. 2, pt. 1.)

[Dupré de St.-Maur (N. F.)] Essai sur les monnoies, ou, Reflexions sur le rapport entre l'argent et les denrées. *Paris: J. B. Coignard*, 1746. xxii, 1 l., 220, 188 pp., 1 tab. 4°.

Digitized by Google

Prices and Money, cont'd.

Ricardo (David). The high price of bullion, a proof of the depreciation of Bank notes. *London: J. Murray*, 1810. iv, 56 pp. 3. ed. 8°.

Bosanquet (Charles). Practical observations on the Report of the bullion-committee. With a supplement. *London: J. M. Richardson*, 1810. 1 p. l., v–viii, 134 pp. 2. ed. 8°.

Ricardo (David). Reply to Mr. Bosanquet's Practical observations on the report of the Bullion committee. *London*, 1811. 8°.

Chapter vi, "Observations on the principles of seignorage," contains the first formulation of the quantity theory of money.

Tooke (Thomas). State of the circulation from the commencement of 1833 to the close of 1837. 66 pp. Bd. with: Harley (James). The currency. *Glasgow*, 1839. 8°. Extr.: Tooke (Thomas). A history of prices. Section 6.

[**Wood** (W. R.)] The management of the circulation in connection with the fluctuations of prices. [By William Rayner Wood.] *Manchester: J. Harrison*, 1840. 2 p. l., 24 pp. 8°.

Tilden (Samuel Jones). Speech at New Lebanon, Oct. 3, 1840. On currency, prices and wages. 20 pp. [*Albany*, 1840.] 8°. (Rough Hewer extra.)

Action (The) of money on prices. (The Economist. v. 2, pp. 890–91. *London*, 1844. F°.)

Lindsay (S. M.) Die Preisbewegung der Edelmetalle, seit 1850, verglichen mit der der andern Metalle unter besonderer Berücksichtigung der Produktions- und Konsumtionsverhältnisse. *Jena: G. Fischer*, 1893. xiii, 218 pp., 1 l., 1 diag. 8°. (Staatswiss. Seminar Halle a. S. Samml. nationalökonom. und statistis. Abhandl. v. 7, no. 3.)

Effect on the price of commodities from the increase of gold. (Banker's Magazine. v. 12, pp. 346–352; 588–592. *London*, 1852. 8°.)

Levasseur (E.) Une méthode pour mesurer la valeur de l'argent. (Journal des Économistes. 2. série, v. 10, pp. 228–50. *Paris*, 1856. 8°.)

Knies (Karl). Ueber die Geldentwerthung und die mit ihr in Verbindung gebrachten Erscheinungen. v. 14, pp. 260–292. *Tübingen*, 1858. 8°.)

Jevons (William Stanley). A serious fall in the value of gold ascertained and its social effects set forth. (In his Investigations in currency and finance. pp. 13–118. *London*, 1884. 8°.)

Originally published in 1863.

—— The variations of prices and the value of the currency since 1782. (In his Investigations in currency and finance. no. 3, pp. 119–150. *London*, 1884. 8°.)

Also in Royal Statistical Society. Journal. June, 1865, v. 28, pp. 294–320

Nasse ( ). Ueber den Einfluss des Credites auf den Tauschwerth der edlen metalle. (Zeitschrift für die gesamte Staatswissenschaft. v. 21, pp. 128–164. *Tübingen*, 1865. 8°.)

Prices as affected by the Gold Discovery. (North British Review. v. 42, pp. 150–164. *New York*, 1865. 8°.)

Jevons (William Stanley). The depreciation of gold. (In his Investigations in currency and finance. pp. 151–59. *London*, 1884. 8°.)

A letter to the *Economist*, May 8, 1869, vol 27, pp. 530–32, and reprinted in Royal Statistical Society, Journal, Dec., 1869, vol. xxxii, pp. 445–49.

General prices and the appreciation of gold. (The Commercial and Financial Chronicle. v. 23, pp. 462–464; 510–512. *New York*, 1870. F°.)

Held ( ). Noch einmal über den Preis des Geldes. Ein Beitrag zur Münzfrage. (Jahrbücher für Nationalökonomie. v. 16, pp. 315–340. *Jena*, 1870. 8°.

Laughlin (J. Laurence). Gold and prices since 1873. (Quarterly Journal of Economics. v. 1, pp. 319–355, 385–399. *Boston*, 1887. 8°.)

Soetbeer (Ad.) Zur Statistik der edelmetalle in den Jahren 1876–1880. (Jahrbücher für Nationalökonomie und Statistik. 2. F., 2. B., pp. 347–415. *Jena*, 1881. 8°.)

Spooner (Lysander). The law of prices: a demonstration of the necessity for an indefinite increase of money. *Boston*, 1877. 8°.

Soetbeer (Georg Adolph). Edelmetall-Produktion und Werthverhältniss zwischen Gold und Silber, seit der Entdeckung Amerikás bis zur Gegenwart. (Petermann, A. H. Mittheilungen., Ergänzband, 13. Ergänzungsheft 57. *Gotha*, 1879. 4°.)

Bourne (Stephen). On some phases of the silver question. (Royal Statistical Society. Journal. v. 42, pp. 406–455. *London*, 1879. 8°.)

Földes (Weisz), Béla. Beiträge zur Frage über Ursachen und Wirkungen des Agios. (Jahrbücher für Nationalökonomie und Statistik. 2 F., Bd. 4, pp. 141–168; 245–291. *Jena*, 1882. 8°.)

Crump (Arthur). The alleged appreciation in the value of gold and the fall in the prices of commodities. (Economist. v. 41, pp. 578–579. *London*, 1883. F°.)

Gibbs (H. H.) The gold question and the fall of prices. *London*, 1883. 22 pp., 1 table. 8°. (Internat. Monetary Standard Assoc. Occasional papers. no. 6.)

Goschen (G. J.), *M.P.* The fall in prices and its explanation, including speech at the Institute of Bankers. [*London*, 1883.] 1 l., 27 pp. 8°. (International Monetary Standard Association. Occasional papers. no. 4.)

Edgeworth (F. Y.) The rationale of exchange. (Royal Statistical Society. Journal. v. 47, pp. 164–166. *London*, 1884. 8°.)

Leroy-Beaulieu (Paul). La question monetaire. (L'Économiste français. 12. année, vol. 2, pp. 629–631, 660–663. *Paris*, 1884. F°.)

Allard (A.) La crise.—la baisse des prix. *Bruxelles*, 1885. 208 pp. 4°.

Mulhall (M. G.) Prices and the gold supply. (Contemporary Review. v.48, pp.188–199. *London*, 1885. 8°.)

Foldes (Béla). Bemerkungen über den Einfluss der Geldeinheit auf die Preise. (Jahrbücher für Nationalökonomie und Statistik. 2. F., 12. Bd., pp. 565–75. *Jena*, 1886. 8°.)

Sauerbeck (Augustus). Prices of commodities and the precious metals. (Royal Statistical Society. Journal. v. 49, pp. 581–648. *London*, 1886. 8°.)

Soetbeer (Ad.) Materials toward the elucidation of the economic conditions affecting the precious metals and the question of standards, translated by F. W. Taussig. (United States Con-

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Prices and Money, cont'd.

sular reports, No. 87, Appendix D. *Washington*, 1887. 8°.)

—— Same. App. xvi. Final Report Roy. Comm. on recent changes in relative values of Precious Metals. (Br. Parlt. Papers, 1888. v. 45.)

Crump (A.) An investigation into the causes of the great fall in prices which took place coincidently with the demonetisation of silver by Germany. *London*, 1889. 8°.

Farrer (*Sir* T. H.) What do we pay with? or, gold, credit and prices. *London*, 1889. 95 pp. 8°.

Frewen (M.) On prices; the silver question [speech, Oct. 4, 1889]. [*London*, 1889.] n. d. 26 pp. 8°.

Quantity of money and prices. (The Statist. v. 26, pp. 247–8. *London*, 1890. F°.)

Soetbeer (Ad.) Edelmetall-gewinnung und Verwendung in den Jahren 1881 bis 1890. (Jahrbücher für Nationalökonomie und Statistik. 3. F., 1. Bd., pp. 518–571. *Jena*, 1891. 8°.)

Luzzatti (G.) Prezzi ideali e prezzi effetivi: note di studio sul valore della moneta in una economia di popolo. *Milano*, 1892. 8°. (Studi giuridici e politici.)

Barclay (R.) Disturbance in the standard of value. *London*, 1893. 107 pp. 8°.

Binns (Henry). Gold supplies and trade revival. (The Economist. v. 52, pp. 1577–1578; 1607–1609. *London*, 1894. F°.)

Böhm-Bawerk (Eugen von). Der letzte Maasstab des Güterwertes. (Zeitschrift für Volkswirtschaft, Socialpolitik und Verwaltung. 3. Bd., pp. 184–230. *Prag*, 1894. 4°.)

Farrer (*Sir* T. H.) Shall we degrade our standard of value? (National Review. v. 24, pp. 165–189. *London*, Oct., 1894. 8°.)

Shaw-Lefevre (G. J.) The fall in prices of commodities, with special reference to depression and bimetallism. Address by G. J. S.-L. Reply . . . by Sir William H. Houldsworth. Rejoinder by G. J. S.-L. *Bradford: Chamber of Commerce* [1894]. 22, 24, 8 pp. 8°.

Auspitz (Rudolf). Der letzte Maasstab des Güterwertes und die mathematische Methode. (Zeitschrift für Volkswirtschaft, Socialpolitik und Verwaltung. Bd. 3, pp. 489–511. *Prag*, 1894. 4°.)

Warner (A. J.), *general.* Prices on a gold basis. The last act in the monetary revolution begun in 1873 and its results—Cause of the decline in value of farm products. [Going to a gold basis. How the process will affect the U. S.] *n. t. p.* [*Washington*, 1894?] 15 pp. 8°.

Atkinson (E. A.) Battle of standards and fall of prices. (Forum. v. 19, pp. 143–158. *New York*, 1895. 8°.)

Bliss (H. L.) Bad money and wages. [*Chicago?* 1895.] 4 pp. 8°.

Eastern bimetallic league. Exchange and prices. I., Agriculture; II., Textile manufacture. *Shanghai: "North China Herald" office*, 1895. 1 p. l., 6 pp. 12°.

Reprint from the "North-China Daily News," 18, 19 Feb., 1895.

Foxwell (H. S.) Lord Farrer on the monetary standard. (National Review, v. 24, Jan., pp. 637–660. *London*, 1895. 8°.)

Hardy (*Miss* S. McLean). The quantity of money and prices, 1860–1891. (Journal of political economy. v. 3, pp. 145–168. *Chicago*, 1895. 8°.)

Answered by President Walker in Quarterly journal of economics, July, 1895.

Walker (Francis A.) The quantity theory of money. (Quarterly journal of economics. July, 1895. v. 9, pp. 372–379. *Boston*, 1895. 8°.)

In answer to Miss Hardy's article in the Journal of political economy, March, 1895.

McVey (F. L.) Quality of money and wages. (In: Sound currency, 1895. *New York*, 1895. 8°. pp. 385–400.)

—— —— (In: Sound currency, 1896. *New York*, 1896. 8°. pp. 531–546.)

Reprint. v. 2, no. 19, September 1, 1895.

Moore (Robert). Farm products, wages and silver . . . [*St. Louis?* 1895?] 7 pp. 3. ed. 8°.

Bourguin (Maurice). La mesure de la valeur et la monnaie. Tables. *Paris*, 1896. 276 pp. 8°.

Foville (A. de.) La théorie quantitative et les prix. (L'Économiste français. 24. année, vol. 1, pp. 451–53, 561–63, 629–31. *Paris*, 1896. F°.)

Mitchell (W. C.) The quantity theory of the value of money. (Journal of political economy. v. 4, pp. 139–165. *Chicago*, 1896. 8°.)

Willis (H. Parker). The history and present application of the quantity theory. (Journal of political economy. v. 4, pp. 417–448. *Chicago*, 1896. 8°.)

Mitchell (W. C.) The new gold and the fall of prices. (Journal of Political Economy. v. 5, pp. 84–85. *Chicago*, 1896. 8°.)

Prentiss (P.) Money and prices as affecting the producer and the wage-worker . . . [*Chicago: Amer. Bimetallic Union*, 1896.] 68 pp. 3. ed. 24°. (Economy Series, no. 1.)

Price (L. L. F. R.) Money and its relation to prices: being an inquiry into the causes, measurement, and effects of changes in general prices. vi, (2) 200 pp. *London: Swan Sonnenschein & Co.*, 1896. 12°. (Social Science Series.)

Atkinson (Fred. J.) Silver prices in India. (Royal Statistical Society. Journal. v. 60, pp. 84–147. *London*, 1897. 8°.)

—— Silver prices in India for 1897. (Royal Statistical Society. Journal. v. 61, pp. 387–403. *London*, 1898. 8°.)

Conant (C. A.) Effect of the new gold upon prices. (North American Review. v. 165, pp. 542–52. *New York*, 1897. 8°.)

Dodsworth (W.) Prices depend on supply and demand, and not on the amount of money in circulation . . . *Chicago: Nat. Sound Money League*, 1897. 15 pp. 8°. (National Sound Money League. Sound money pamphlets, B.)

Falling prices in silver countries. (Yale Review. v. 6, pp. 77–79. *New Haven*, 1897. 8°.)

Roberts (George E.) Money, wages, and prices. *Chicago: National Sound Money League*, 1897. 96 pp. sq. 12°. (National Sound Money League, Pamphlet D.)

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Prices and Money, cont'd.

Scott (W. A.) The quantity theory. *Philadelphia: Amer. Acad. Polit. & Soc. Sci.*, 1897. pp. 40–58. 8°. (Publications of the Amer. Acad. Polit. and Soc. Sci., No. 195.)

—— The quantity theory. (Annals Amer. Acad. of Political and Social Sci. v. 9, pp. 212–230.) *Philadelphia*, 1897. 8°.

Wicksell (Knut). Der Bankzins als Regulator der Warenpreise. (Jahrbücher für Nationalökonomie und Statistik. 3. F., 13. Bd., pp. 228–43. *Jena*, 1897. 8°.)

Farrer (*Sir* T. H.) Quantitative theory of money and prices. *London*, 1898. 10 pp. 8°.
Reviewed by Edwin Canan in *Economic Journal*, v. 8, pp. 81–83 (London, 1898).

Lloyd (T.) Wages, gold, and prices. (The Statist. v. 42, pp. 449; v. 43, pp. 422–23. *London*, 1898–99. F°.)

Mixter (C. W.) Samuel Bailey on appreciation. (Quarterly Journal of Economics. v. 12, pp. 343–348. *Boston*, 1898. 8°.)

Wicksell (K.) Geldzins und Güterpreise. Eine Studie über die den Tauschwert des Geldes bestimmenden Ursachen. *Jena: G. Fischer*, 1898. xi, 2 l., 189 pp. 8°.

Will (Thomas Elmer). Stable money. (Jour. of Polit. Economy. *Chicago*, 1898. 8°. v. 7, pp. 85–92.)

Grant (G. J. F.) Value of money and prices. (Westminster Review. v. 154, pp. 95–99. *London*, 1900. 8°.)

Humboldt ([F. W. H.] A. von), *baron*. The fluctuations of gold, by Baron A. von Humboldt. [Also:] The law of payment, by François Grimaudet. Translated into English, revised and annotated by William Maude. *New York: Cambridge Encycl. Co.*, 1900. 45, v, 1 l., 5–76 pp., 2 l. 8°.

Laburthe (Raymond). De l'influence de la monnaie sur les prix. (Rev. polit. et parlementaire. v. 24, pp. 508–543. *Paris*, 1900.)

Mayo-Smith (Richmond). Money and prices. Polit. Sci. Quar. v. 15, pp. 196–216. *New York*, 1900.)

REGULATION.

France.—*Subsistances et des Approvisionnements, Commission des.* [Tableau général du maximum de la Republique française.] *Paris: Imp. Nationale Executive du Louvre*, 1793. pts. 1–20. 2 v. 8°.

Leroy-Beaulieu (Paul). Un commencement d'application du collectivisme: la fixation du prix des choses par arrêté prefectoral, la gaz à Paris. (L'Économiste français. 11. année, vol. 1, pp. 597–599. *Paris*, 1883. F°.)

Marshall (A.) Remedies for fluctuations in prices. (Contemporary Review. v. 51, pp. 355–375. *London*, 1886. 8°.)

Hadley (A. T.) Legal theories of regulation of prices. (Yale Review. v. 1, pp. 56–67. *New Haven*, 1892. 8°.)

Goodnow (F. J.) Agreements aiming to raise prices are invalid. (Political Science Quarterly. v. 12, pp. 214–27. *New York*, 1897. 8°.)

Combinations to maintain prices not always illegal. (The Commercial and Financial Chronicle. v. 58, pp. 545–546. *New York*, 1899. F°.)

Shibley (G. H.) Who shall control the price level? (Arena, v. 23, pp. 68–87. *Boston*, 1900. 8°.)

THEORY.

Remarks on certain modern theories respecting rents and prices. *Edinburgh: W. Blackwood*, 1827. 1 p. l., 100 pp. 8°.

Hildreth (R.) High and low prices. (Hunt's Merchants' Magazine. v. 3, pp. 305–311. *New York*, 1840. 8°.)

Stirling (P. J.) The philosophy of trade; or, The outlines of a theory of profits and prices . . . *Edinburgh: Oliver & Boyd*, 1846. 8°.

Observations sur la formation des prix. (Journal des Économistes. v. 29, pp. 111–28. *Paris*, 1851. 8°.)

Clément (Ambroise). De l'influence exercée par la hausse ou la baisse des valeurs sur la richesse générale. (Journal des Économistes. 2. série, v. 3, pp. 1–18. *Paris*, 1854. 8°.)

Accroissement (L') des prix est-il un signe de prospérité générale? (Annales de la Société d'Économie Politique. Séance du 6 mai, 1864, pp. 589–610; Séance du 7 septembre, 1885, pp. 169–180. *Paris*, 1891–1896. 8°.)

Roesler (H.) Zur Theorie des Preises. (Jahrbücher für Nationalökonomie und Statistik. v. 12, pp. 81–138. *Jena*, 1869. 8°.)

Laspeyres (E.) Die Berechnung einer mittleren Waarenpreissteigerung. (Jahrbücher für Nationalökonomie und Statistik. v. 16, pp. 296–314. *Jena*, 1870. 8°.)

Roesler (*Dr.* Hermann). Das Gesetz des Preises. (Annalen des Deutschen Reiches für Gesetzgebung, Verwaltung und Statistik. 1872, p. 532. *Leipzig*, 1872. 8°.)

Heitz (E.) Ueber die Methoden bei Erhebung von Preisen. (Jahrbücher für Nationalökonomie und Statistik. v. 26, pp. 65–87, 129–220; v. 27, pp. 316–68. *Jena*, 1876–77. 8°.)

What is a fair price? (Economist. v. 35, pp. 89–90, 119. *London*, 1877. F°.)

Leroy-Beaulieu (Paul). Du caractère permanent ou accidentel de la hausse des valeurs mobilières. (L'Économiste français. 7. année, vol. 1, 1879, pp. 373–75. *Paris*, 1879. F°.)

Gärtner (Friedrich). Beiträge zur Lehre von der Preisbildung auf Grund einer statistischen Betrachtung von Aktienkursen. (Annalen des Deutschen Reichs für Gesetzgebung, Verwaltung und Statistik. 1886, pp. 285–310. *Leipzig*, 1886. 8°.)

Bourne (Stephen). Foreign and colonial tariffs as influencing prices and affecting trade. (Royal Statistical Society. Journal. v. 49, pp. 273–313. *London*, 1886. 8°.)

Neumann (F. J.) La formazione del Prezzo. *Roma*, 1886–87. 8°. (Biblioteca dell' Economista. Ser. 3. v. 11; 12, pt. 2.)

Atkinson (E.) Low prices, High Wages, Small profits; what makes them? (Century. v. 12, pp. 568–584. *New York*, 1887. 8°.)

Dans les oscillations des prix, est-il vrai que ce que l'un gagne l'autre le perd? (Annales de la Société d'Économie Politique. June, 1887. *Paris*, 1896. 8°.)

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Theory, cont'd.

Borght (R. van der). Untersuchungen über den Einfluss der distributiven Gewerbe auf die Preise. (Schriften des Vereins für Socialpolitik. Bd. 36–37. *Leipzig*, 1888. 8°.)

Graziani (A.) Storia critica della teoria del valore in Italia. *Milano*, 1889. 8°. Studi giurid. e polit.)

Lehr (*Dr.* J.) Wert, Grenzwert und Preis. (Jahrbücher für Nationalökonomie und Statistik. 2. F., 19. Bd., pp. 17–56. *Jena*, 1889. 8°.)

Montanari (A.) Contributo alla storia della teoria del valore negli scrittori italiani. *Milano*, 1889. 8°. (Studi giurid. e polit.)

Patten (S. N.) The stability of prices. *Philadelphia*, 1889. 64 pp. 8°. (Amer. Econom. Assoc. Publications. v. 3, no. 6: Jan., 1889.)

Schwiedland (Eugen). Das Verhältniss der Gross- und Kleinhandelpreise. (Jahrbücher für Nationalökonomie und Statistik. 2. F., Bd. 19., pp. 249–75. *Jena*, 1889. 8°.)

Si la hausse des valeurs de bourse est un accroissement de la richesse publique. (Annales de la Société d' Économie Politique. Séance du 4 février, 1854, pp. 11–24. *Paris*, 1889. 8°.)

Verein für Social politik, Leipzig. Verhandlungen über den ländlichen Wucher, die Mittel zu seiner Abhülfe . . . und über Einfluss des Detailhandels auf die Preise . . . 3 p. l., 264 pp. *Leipzig: Duncker & Humblot*, 1889. 8°. (Verein für Socialpolitik. Schriften. Bd. 38.)

Zuckerkandl (R.) Zur Theorie des Preises, mit besonderer Berücksichtigung der geschichtlichen Entwicklung der Lehre. *Leipzig*, 1889. 8°.

Hobson (J. A.) Elements of monopoly in prices. (Quarterly Journal of Economics. *Boston*, 1891. v. 6, p. 1–24. 8°.)

Fisher (Irving). Mathematical investigations in the theory of value and prices. (Connecticut Academy of Arts and Sciences. v. 9, pp. 1–124. *New Haven*, 1892. 8°.)

Gömöry (*Dr.* Olivier von). Der Preis als selbständige Kategorie. (Jahrbücher für Nationalökonomie und Statistik. 3. F., 13 Bd., pp. 177–92. *Jena*, 1897. 8°.)

Utley (A. J.) Does credit act on the general level of prices? (Arena. v. 18, pp. 37–48. *Boston*, 1897. 8°.)

Cilleuls (Alfred des). De la méthode dans les études rétrospectives sur les prix et valeurs. (Réforme sociale. *Paris*, 1898. 8°. Sér. 4, v. 6, pp. 885–897.)

Cassell (G.) Grundriss einer elementaren Preislehre. (Zeitschrift für die gesamte Staatswissenschaft. vol. 55, pp. 395–458. *Tübingen*, 1899. 8°.)

Hobson (John A.) The economics of bargaining. (Economic Rev. *London*, 1899. 8°. v. 9, pp. 20–41.)

Fuhr (E. A.) Zur Preisbildung aus meiner Erfahrung. (Ztsch. f. d. gesamte Staatswiss. v. 56, pp. 485–497. *Tübingen*, 1900.)

Schmoller (Gustav). Einige principielle Erörterungen über Werth und Preis. (Kön-preuss. Akad. der Wissensch. Sitzungsb. 1901, pp. 634–676.) *Berlin*, 1901.

PRICES AND TRUSTS.

Roberts (George E.) Why the trusts cannot control prices. (Amer. Monthly Rev. of Rev. v. 20, pp. 305–308. *New York*, 1899.)

Parbury (George). A substitute for trusts. (Globe. v. 10, pp. 264–281. *New York*, 1900.)

Jenks (Jeremiah W.) Industrial combinations and prices. *Washington*, 1900. (U. S. Industrial Commission. Prelim. report on trusts. pp. 39–57.)

With numerous charts showing effects of combinations on prices.

—— How trusts affect prices. (North Amer. Rev. v. 172, pp. 906–918. *New York*, 1901.)

PRICES OF VARIOUS ARTICLES.

AGRICULTURAL IMPLEMENTS.

Brown (L. W.) Agricultural implements in Scotland. 1890. (U. S. Cons. Rpts. v. 32, pp. 475–477. *Washington*, 1890. 8°.)

With table of prices.

Dunlap (J. H.) Exposition of agricultural machinery in Breslau, 1890. (U. S. Cons. Rpts. v. 33, pp. 496–500. *Washington*, 1890. 8°.)

With prices of German and English-made machinery.

Walthall (W. T.) Agriculture and agricultural implements in British Guiana. 1890. (U. S. Cons. Rpts. v. 34, pp. 477–483. *Washington*, 1890. 8°.)

With table of average prices of food, etc., in Georgetown, during 1889.

AGRICULTURAL PRODUCTS.

See also COTTON, FOODSTUFFS, GRAIN, MEAT, ETC.

Corn and grain . . . Accounts . . . received . . . from . . . the Prince Regent's consuls abroad, of the prices of corn, grain, meal and flour, and of other articles . . . of agriculture, at . . . places at which they reside . . . [in 1819]. [*London*, 1819.] 14 pp., 1 l. F°. (Great Britain. Parl. Papers. Sess. 1819, (521). v. 16.)

—— Recent accounts of the price of corn, grain, and other agricultural products . . . received from His Majesty's ambassadors and residents in foreign countries . . . [during the year 1820]. [*London*, 1821.] 8 pp. F°. (Great Britain. Parl. Papers. Sess. 1821, (190). v. 17.)

Belgium.

Produits agricoles: prix moyen. (Annuaire stat. de la Belgique, 1881.)

Continued each year thereafter.

Congo Free State.

Mohun (R. D.) Prices of goods for the Kongo. 1895. (U. S. Cons. Rpts. v. 48, pp. 585–587. *Washington*, 1895.)

With table of prices paid by Kongo Free State in Antwerp, and prices charged in Kongo Free State, May 28, 1894.

France.

Prix moyens des produits agricoles pendant 1838, dans la région du nord oriental de la France. (Tableau récapitulatif.) (Statistique de la France. Sér. 1, v. 3, pp. 270–271. *Paris*, 1838. F°.)

—— moyens des produits agricoles pendant 1838, dans la région du midi oriental de la France. (Tableau récapitulatif.) (Statistique de la France. Sér. 1, v. 3, pp. 574–575. *Paris*, 1838. F°.)

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Agricul. Prod., France, cont'd.

Prix moyens des produits agricoles [1838?], dans la France orientale. (Tableau sommaire.) (Statistique de la France. Sér. 1, v. 3, pp. 620–621. *Paris*, 1838. F°.)

Germany.

Ergebnisse der Frucht-, Vieh-, u. Wollmärkte von 1838–41. (Württb. Jahrb. 1840, pp. 372–396. *Stuttgart*, 1841. 8°.)

—— *Hanover.*

Preise (Die) landwirthschaftlicher Erzeugnisse in den Jahren 1854 bis 1865, an den hannoverschen Hauptmarktorten. (Beiträge zur Statistik des Königreichs Hannover. Hft. 12, viii–x.)

—— *Prussia.*

Laspeyres (E.) Einzelpreise und Durchschnittspreise vegetabilischer und animalischer Produkte in Preussen während der 75 Jahre 1821 bis 1895. (Ztsch. d. kön. preuss. Statist. Bureaus. Jahrg. 41, pp. 51–81. *Berlin*, 1901.)

Great Britain.

Young (Arthur). An enquiry into the progressive value of money in England, as marked by the price of agricultural products; with observations upon Sir G. Schuckburgh's Table of Appreciation . . . viii, 65–137 pp. *London: B. Macmillan, printer*, 1812. 8°.

Returns "of total value of lands sold under the Incumbered Estates Court," etc. *London*, 1870. 3 pp. F°. (Great Britain. Parl. Papers, 1870. v. 57 pap. 101.)

Tables showing average prices of agricultural produce in 1850, 1860, and 1869.

Giffen (R.) Report to the Secretary of the [British] Board of Trade on the prices of exports of British and Irish produce in the years 1861–77. *London*, 1879. 15 pp. F°. (Parl. Papers, 1878/9. v. 65.)

Prix (Le) des produits agricoles dans le royaume-uni. (L'Économiste française. 7. année, v. 1, 1879, pp. 197–99. *Paris*, 1879. F°.)

Return "showing total quantities of various kinds of grain and flour imported in 1879 and 1880; the Gazette average prices of corn, with highest and lowest weekly average prices, and average annual prices of butchers' meat, wool, and other agricultural produce for same period. 1881. 10 pp. F°. (Great Britain. Parl. Papers. Sess. 1881, (264). v. 83.)

—— *Ireland.*

Agricultural produce (Ireland). Return "of the names of the thirty-nine principal . . . markets of Ireland . . . with the prices of the different articles of agricultural produce . . . 1848[–1850]." [*London*, 1851.] 4 pp. F°. (Great Britain. Parl. Papers. Sess. 1851, (251). v. 50.)

—— Return, "showing . . . average prices of . . . produce . . . of forty towns, during . . . 1849–1851." [*London*, 1852.] 6 pp. F°. (Great Britain. Parl. Papers. Sess. 1852, (307). v. 47.)

Bill (A) to provide for taking and regulating returns of the average prices of agricultural produce in Ireland. [*London*, 1854.] 10 pp. F°. (Great Britain. Parl. Papers. Sess. 1854, (Bill 101). v. 1.)

Return "of the average prices of agricultural produce in Ireland, as collected by the Irish Land Comrs. year by year from 1881 to 1895." *London*, 1896. 3 pp. F°. (Br. Parlt. Papers, 1896. v. 92.)

—— Same, 1881–96. *Idem*, 1897. v. 98.

—— Same, 1881–97. *Idem*, 1898. v. 102.

—— Same, 1881–98. *Idem*, 1899. v. 106.

—— of average prices of agricultural produce in the provinces and for the whole of Ireland, for the years 1887–92, respectively. *Dublin*, 1893. 10 pp. F°. (Great Britain. Parlt. Papers, 1893. v. 75.)

Ashby (N. B.) Prices of agricultural produce in Ireland. 1896. (U. S. Cons. Rpts. v. 51, pp. 523–524. *Washington*, 1896. 8°.)

—— *Scotland.*

Great Britain.—*Scottish Agricultural Prices, Committee on.* Report . . . upon the existing methods of collecting and recording the prices of agricultural products in Scotland . . . *London: Wyman & Sons, ltd., prtrs.*, 1901. xxi pp. pap. F°. Cd. 805. (Agriculture, Bd. of.)

—— Minutes of evidence . . . with appendices and index. iv, 298 pp. Cd. 828.

Indo-China.

Vergne (P.) Les Prix du Café, du Sucre et de la Farine en Indo-Chine. (La Reforme Économique. 10. année, pp. 524–525. *Paris*, 1901. 8°.)

Russia.

Way (C. H.) Russian agriculture and cereal trade. 1889. (U. S. Cons. Rpts. v. 30, pp. 275–313. *Washington*, 1889. 8°.)

With tables of prices of flax, 1883–87; prices of agricultural products in 1887; prices of cereals, 1881–87; price of live cattle in Russia, 1882–87; price of field labor, 1887.

South Africa.

Stowe (J. C.) South African trade statistics. 1898. (U. S. Cons. Rpts. v. 57, pp. 554–563. *Washington*, 1898. 8°.)

With tables of average market prices of stock, and animal and agricultural products, 1897.

Spain.

McCrillis (R. F.) Raisins, grapes and onions in Spain. 1893. (U. S. Cons. Rpts. v. 42, pp. 210–212. *Washington*, 1893. 8°.)

With table of reports and prices of Denia raisins from 1883 to Apr. 22, 1893.

United States.

Comparative prices of New Orleans sugar and molasses in New Orleans and Cincinnati. (Debow's Commercial Review. v. 1, pp. 379, 469. *New Orleans*, 1847. 8°.)

Prices of Sugar, Cotton, Flour, Corn, Pork, etc., at New Orleans. (Debow's Commercial Review. v. 4, pp. 396–97; v. 6, pp. 443–445. *New Orleans*, 1847–48. 8°.)

Prices of farm products. (Maine. State Dept. Statistics of the industries of Maine, 1886. Pp. 25–27.)

Tables for Maine, 1880–84, and for all the states for 1884.

United States.—*Agriculture, Committee on.* Fictitious and gambling transactions on the price of articles produced by American farm industry. April 21, 1888. [*Washington*,] 1888. 9 pp. pap. 8°.

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Agricul. Prod., United States, cont'd.

Farm prices on Dec. 1, 1890, 1891, 1892, 1893 and 1894. 2 pp. *Washington*, 1895. (U. S. *Agriculture dept.* Yearbook, 1894. pp. 545–546.)

Wholesale prices of principal agricultural products in leading cities in the United States. 6 pp. *Washington*, 1895. (U. S. *Agriculture dept.* Yearbook, 1894. pp. 534–539.)

Comparative prices of 109 staple articles, raw and manufactured products, produce, cattle and meats, at quarterly intervals. (Bradstreets. v. 24, pp. 19 and passim. *New York*, 1896. F°.)

Monthly after June, 1897.

Average prices for imports and exports [of agricultural products]. *Washington*, 1898–1900. (U. S. *Agriculture dept.* Yearbook, 1897, pp. 749–752; 1898, pp. 718–721; 1899, pp. 836–839.)

Davis (K. B.) Tables relating to the price of wheat and other farm products. (Journal of Political Economy. v. 6, 403–10. *New York*, 1898. 8°.)

BEER.

Domergue (Jules). Le Prix de la Biere à Paris et le Dégrèvement des Boissons. (La Réforme Économique. 10. année, pp. 869–870. *Paris*, 1901. 8°.)

BREAD.

See also FOODSTUFFS, GRAIN, etc.

France.

Prix du pain à Paris, de 1801 à 1844. (Journal des Économistes. v. 12, p. 182. *Paris*, 1845. 8°.)

Fougerousse (A.) Le prix du pain à Paris. (L'Économiste français. 12. année, vol. 2, pp. 535–537. *Paris*, 1884. F°.)

—— Le pain et la coopération. (L'Economiste français. 13. année, vol. 1, pp. 6–7. *Paris*, 1885. F°.)

Parti Ouvrier Français: Commission spéciale. Le pain cher. Rapport présenté . . . le 9 Nov. 1897, au Conseil municipal de Toulouse, par le citoyen Bedouce . . . *Toulouse : Parti Ouvrier Français* [1898 ?]. 15 pp. 16°.

Germany.

Scheel (H.) Zur Statistik der Brotpreise in Deutschland. (Jahrbücher für Nationalökonomie und Statistik. 2. F., 15. Bd., pp. 205–222. *Jena*, 1887. 8°.)

Hirschberg (E.) Die Brotpreise in Berlin in den Jahren 1889–1897. (Jahrb. f. Nationalökonomie u. Statist. v. 54–70 (n. s. v. 5–15). *Jena*, 1890–'98.)

Great Britain.

[**Report** from the select committee, Gt. Britain, respecting the assize of bread. Cost of the quartern-loaf according to the prices of wheat. Account of the prices given for beef, pork and wheat bought at ports of London, &c., for victualling the navy, from 1745–1765.] April, 1767. (H. of C. Journals, v. 31, pp. 319–325.)

Bread. [Gt. Britain.] An account of the average price of the quartern loaf in the city of London, from the year 1780 to 1815. [*London*, 1834.] 6 pp. F°. (Great Britain. Parl. Papers. Sess. 1834, (92). v. 49.)

[**Long** (C.)] A temperate discussion of the causes which have led to the present high price of bread. Addressed to the plain sense of the people. [By Charles Long.] *London : J. Wright*, 1800. 2 p. l., 45 pp. 3. ed. 8°.

—— —— 2 p. l., 43 pp. 8°.

Nasmith (James). An examination of the statutes now in force relating to the assize of bread; with remarks on the bill intended to be brought into Parliament by the country bakers. *Wisbech : J. White*, 1800. 2 p. l., 85 pp., 1 l. 8°.

Great Britain.—*Bread committee.* Report from the select committee [Gt. Britain] on the existing regulations relative to the making and the sale of bread. [With appendix, containing minutes of evidence.] *London* [1821]. 20 pp. F°. (Parl. Papers. Sess. 1821, (426). v. 5.)

—— *Bakers' Allowances Committee.* Report from Select Committee [Gt. Britain] on Allowances Granted to Bakers by the act 53 Geo. III., c. 116; in those places where an assize of bread is set. [Minutes of evidence. Prices of bread and of the articles used in making it. Price of candles. Journeymen's wages.] [*London*, 1824.] 20 pp. F°. (Parl. Papers. Sess. 1824, (212). v. 6.)

Bread [Gt. Britain]. An account of the total quantity . . . of bread purchased . . . by the Commissariat . . . from 1816 to 1831 . . . with . . . average price . . . per quartern loaf, in each year. *London* [1832]. 1 l. F°. (Great Britain. Parl. Papers. Sess. 1831–32, (269). v. 27.)

Bread, &c. A return of the price of the best wheaten bread, wheaten flour [and red or white wheat] . . . in London, on the 1st November, 1845; also similar returns from Her Majesty's consuls abroad, at the same date. [*London*, 1846.] 56 pp., 1 l. F°. (Great Britain. Parl. Papers. Sess. 1846, (7). v. 44.)

Bread, flour and wheat. Returns of the prices in London and Paris . . . of the best wheaten bread, [&c.,] November, 1846–June, 1847. [*London*, 1847.] 2 pp., 1 l. F°. (Great Britain. Parl. Papers. Sess. 1847, (152., 581). v. 59.)

Kirkland (J.) The relative prices of wheat and bread. (Economic Journal. v. 6, pp. 475–484. *London*, 1896. 8°.)

Price (The) of bread. 1899–1901. (Labour Gaz. v. 7, pp. 101; v. 8, pp. 259, 357; v. 9, p. 167. *London*, 1899–1901.)

Italy.

Berni (A.) Il prezzo del pane (calmiere e forni cooperativi). Con appendici. *Mantova : A. Mondovì e fig.*, 1897. 29 pp. 2 ed. 8°.

Netherlands.

Hogendorp (Willem van). Ontwerp eener onderlinge waarborging tegen hooge broodpryzen, ten behoeve van den nyveren arbeidsman, aan alle gemeente-besturen en menschenvrienden binnen het ryk der Nederlanden, tot onderzoek en nadere wyziging aangeboden. *Amsterdam : S. Delachaux*, 1817. 4 p. l., 32 pp. 8°.

Brot- und Mehlpreise im Königreiche der Niederlande, 1851 bis 1855 (Zeitschr. Preuss. Stat. 31. Jahrg. 1891, St. K. xxvix-xxx). *Berlin*, 1891. F°.)

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Bread, Netherlands, cont'd.

Prijzen van brood, voor en na de gemalafschaffing, 1. (De Economist. 1856, pp. 63–64.) *Amsterdam*, 1856. 8°.)

Spain.

Leiva (Juan Martinez de). The price of bread in Madrid. (Economic Journal. v. 6, pp. 276–277. *London*, 1896. 8°.)

Switzerland.

Zuppinger (C.) Die Brotpreise 1895–96 (Kanton St. Gallen). (Schweizerische statistische Gesellschaft. Zeitschrift für schweizerische Statistik, 1896. pp. 461–82. *Bern*, 1896. 4°.)

CACAO.

Sorsby (W. B.) Cacao in Ecuador, 1892. (U. S. Cons. Rpts. v. 40, pp. 59–65. *Washington*, 1892. 8°.)

With table showing average price and bank rate of exchange by months, for 1887–91.

CATTLE.

Monthly range of prices in Chicago market for cattle from Jan., 1888, to Dec. 31, 1892. (Montana. Agric., Labor and Indus. Bur. of. 1. Ann. rpt. p. 273.)

—— —— 1892 to 1897. (5. Annual report, 1897. p. 111.)

COAL.

Great Britain.—*Coal trade committee.* Report of the Select Committee [Gt. Britain] on the State of the Coal Trade [with minutes of evidence and appendix]. [Rate of wages. Price of coals at collieries, at the port of shipment and in London. *London*, 1830.] 397 pp., 2 maps, 1 pl. F°. (Parl. Papers. Sess. 1830, (9). v. 8.)

—— —— Report from the select committee of the House of Lords [Gt. Britain] appointed to take into consideration the state of the coal trade in the United Kingdom; with the minutes of evidence . . . an appendix and index. [Price of coals at port of shipment and delivery. Wages of colliers, coal meters, whippers and Keelmen. Regulations as to price in the north. Account of the selling price of coals in the port of London, Jan., 1807–May, 1829.] [*London*, 1830.] 287 pp., 5 diagr., 1 map. F°. (Parl. Papers. Sess. 1830, (663). v. 8.)

Coal. An account of the prices of coals in the London coal market, on . . . market days . . . [in] 1830; and . . . 1831. [*London*, 1831.] 6 pp. (Great Britain. Parl. Papers. Sess. 1831, (165). v. 17.)

Return (A) of the price of coals furnished to the post-office packets at Liverpool, Portpatrick, Holyhead and Milford. (In: Report from the Select Committee [Gt. Britain] on Post Communication with Ireland . . . [*London*, 1832.] pp. 383. F°. (Great Britain. Parl. Papers. Sess. 1831–32, (716). v. 17.)

Great Britain.—*Coal trade committee.* Report from the Select Committee [Gt. Britain] on the State of the Coal Trade; together with the minutes of evidence and appendix. [Charges added to the price of coal. Wages of weighers, keelmen, etc. Prices of coal, 1823–June, 1836. Shipping prices of coals brought into the port of London, 1828–1835.] [*London*, 1836.] xliv, 286 pp. F°. (Great Britain. Parl. Papers. Sess. 1836, (522). v. 11.)

—— —— Report from Select Committee [Gt. Britain] on the Coal Trade (Port of London) Bill; with the minutes of evidence, appendix and index. [Effect of the factors' regulations on the prices. Sales of cargoes from the Wear and Tyne in London. Prices in the West Indies and export trade. Prices of Walls End coals. Wages of colliers, etc. Shipping prices of coals brought into the port of London, 1836–1837. Prices in the collieries of the Tyne, Wear and Tees.] [*London*, 1838.] x, 268, iv, 36 pp., 1 l. F°. (Great Britain. Parl. Papers, Sess. 1837–38, (475). v. 15.)

Coals [Gt. Britain]. A return of prices paid by the government for coals at the ports of . . . Portsmouth, Devonport and Falmouth . . . 1837–39 . . . [*London*, 1840.] 1 l. F°. (Great Britain. Parl. Papers. Sess. 1840, (221). v. 44.)

Coals, etc. (Navy).—Warlick's patent fuel. A return of the names of contractors for the supply of coal to each of Her Majesty's naval establishments . . . stating . . . price of coals supplied . . . 1840–1844 . . . Price per ton of Grant's fuel in the last three years . . . [*London*, 1845.] 60 pp. F°. (Great Britain. Parl. Papers. Sess. 1845. (600). v. 30.)

Return "showing the annual average price (exclusive of city or other dues) of the best coals at the ship's side in port of London, from 1820 to 1880." [*London*,] 1881. 1 p. F°. [Great Britain. Parl. Papers. Sess. 1881, (225). v. 83.)

Renouard (Alfred). La reprisse des affaires dans les charbonnages du nord. La hausse des titres et des prix. (L'Économiste français. 18. année, vol. 1, pp. 35–37. *Paris*, 1890. F°.)

Williams (C. P.) Manufacture of conglomerate fuel in France, 1891. (U. S. Cons. Rpts. v. 35, pp. 449–462. *Washington*, 1891. 8°.)

With table of cost of coal and pitch, 1873–88.

COFFEE.

Café (Le), ses variations de prix depuis cinquante ans. L'Économiste français. 22. année, vol. 2, pp. 557–59. *Paris*, 1894. F°.)

Lowrie (W. L.) Coffee prices in Brazil, 1899. (U. S. Cons. Rpts. v. 62, pp. 361–362. *Washington*, 1899. 8°.)

Fee (W. T.) The cultivation of coffee in India, 1900. (U. S. Cons. Rpts. v. 63, pp. 23–26. *Washington*, 1900. 8°.)

With table of prices in London for 1874–98.

COTTON.

Cotton goods trade of the world and the share of the U. S. therein. (U. S. Cons. Rpt. no. 12. *Washington*, 1881. 583 pp. 8°.)

Commerce, manufacture, prices.

Monaghan (J. C.) Cotton prices in Europe, 1894. (U. S. Cons. Rpts. v. 47, pp. 439–440. *Washington*, 1894. 8°.)

With table of lowest and highest prices for middlings in Liverpool, at intervals from 1814 to Nov. 12, 1894.

Ecuador.

De Leon (P. M.) Cotton goods in Ecuador, 1899. (U. S. Con. Rpts. v. 60, pp. 136–140. *Washington*, 1899. 8°.)

With table giving prices.

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Cotton, cont'd.

Egypt.

Grant (L. B.) Cotton in Egypt, 1892. (U. S. Cons. Rpts. v. 40, pp. 112–120. *Washington*, 1882. 8°.)

With table of average price for 1821–92.

Great Britain.

Report from the secret committee of the House of Lords [Gt. Britain] appointed to inquire into the causes of distress . . . among the commercial classes . . . with the minutes of evidence and an appendix, [and] general index . . . [*London*, 1848.] lv, 480 pp.; 1 p. l., 20 pp. (Great Britain. Parl. Papers. Sess. 1847–48, (565 [1–]2 2). v. 8, pt. 3.)

Contraction of the circulation produces fall in the value of commodities. Effect of pressure upon the money market on the prices of cotton. Effect of low prices of cotton upon manufacturing interests. Prices of cotton at Liverpool in 1848 compared with the four previous years

Commercial tariffs and regulations, resources and trade of . . . Europe and America. Part 23. India, Ceylon, and other oriental countries. By John Macgregor. [*London*, 1848.] viii, 762 pp. (Great Britain. Parl. Papers. Sess. 1847–48, ([974.]). v. 61.)

Table showing effect of successive improvements on price of cotton cloths, including calico, 1814–1844. Prices of upland, or bowed Georgia cotton, at Liverpool, 1838–1846. Average price of cotton compared with twist, 1802–1832. Prices of cotton yarn, 1786–1792, 1812 and 1830. Average prices of manufactured cotton goods exported in 1836–1845. Prices of provisions in Manchester, 1826–1832. Prices of linen yarn, and of canvas; and of the wages paid at Leeds for weaving, 1813–1833. Wages and earnings in connection with prices.

Shaw (A. D.) The cotton industry of England. [U. S. Cons. Rpt. v. 11, pp. 601–638.)

Wages, prices, production, etc.

Sherman (T. H.) Wool, cotton and iron trade of England, 1889. (U. S. Cons. Rpts. v. 32, pp. 347–360. *Washington*, 1899. 8°.)

With table showing average, lowest and highest prices of middling Orleans cotton, from 1842/43 to 1888/89.

Campbell (W. S.) Cotton-seed mills in England, 1894. (U. S. Cons. Rpts. v. 46, pp. 176–178. *Washington*, 1894. 8°.)

With table of prices current at Hull for oil, oil-seed cakes, linseed, etc., July 6, 1894.

India.

Great Britain.—*Cotton committee.* Report from the Select Committee [Gt. Britain] on the growth of cotton in India; together with the minutes of evidence, appendix and index. [*London*, 1848.] xviii, 548, 547*–548*, 549–615 pp., 3 diagr. F°. (Parl. Papers. Sess. 1847–48, (511) v. 9.)

Irregularity of price in India cotton. Imports of Indian cotton, as connected with the prices of American cotton. Prices of native and East India cotton compared. Prices of cotton in India and at Liverpool, 1834–35, 1846–47. Prices of East India (Surat) and other cotton at Liverpool, and export price of cotton at Bombay, 1780–1846. Average price of middling New Orleans, 1831–1847.

Bombay.—*Cotton trade committee.* Cotton trade (East India). [Report of the Committee, appointed by the government of Bombay, on the Decline of the Cotton Trade; &c. Prices of cotton.] [*London*, 1847.] 70 pp. F°. (Great Britain. Parl. Papers. Sess. 1847, (712). v. 41.)

Russia.

Karel (J.) Cultivation of cotton in Russia, 1895. (U. S. Cons. Rpts. v. 51, pp. 275–278. *Washington*, 1895. 8°.)

With table of prices for American and native cotton, 1893–94.

United States.

Annual average currency prices in the New York market of middling cotton, 1847 to 1888. (U. S. Statistical Abstract. *Washington*, 1889. 4°.)

Continued each year thereafter.

Parker (M.) Weekly price of middling cotton . . . 1872–1873. *Memphis: M. Parker*, 1873. Single sheet. F°.

DAIRY PRODUCTS.

Käse- ŭ. Butterpreise auf den Hauptmärkten Europa's vom Nov., 1874, bis Okt., 1875. (Zeitschrift für Schweizerische Statistik. 12. Jahrg., 1876, pp. 135–136. *Bern*, 1876. F°.)

Denmark.

Ryder (H. B.) The Danish butter market, 1890. (U. S. Cons. Rpts. v. 33, pp. 558–560. *Washington*, 1890. 8°.)

With table of monthly prices during 1889, for first and third class butter.

—— Danish butter trade, 1891. (U. S. Cons. Rpts. v. 35, pp. 415–416. 8°. *Washington*, 1891. 8°.)

With tables of prices by month, 1890, and for years 1881–90.

Great Britain.

Dickinson (A. D.) English dairy imports and prices of cereals, 1897. (U. S. Cons. Rpts. v. 53, pp. 577–578. *Washington*, 1897. 8°.)

With table of average prices for wheat, barley and oats, 1887–96.

—— *Ireland.*

Piatt (J. J.) The dairy industry of the south of Ireland, 1890. (U. S. Cons. Rpts. v. 33, pp. 352–357. *Washington*, 1890. 8°.)

With table giving price of butter, on Apr. 14, 1890.

Switzerland.

Emmenthalerkäse-Preise von 1843 bis 1874. (Zeitschrift für Schweizerische Statistik. 12. Jahrg., 1876, p. 135. *Bern*, 1876. F°.)

FLAX.

Great Britain.—*Linen trade committee.* Report from the Select Committee [Gt. Britain] on the laws which regulate the linen trade of Ireland [with minutes of evidence]. [Prices of flax, linen yarn and linens. Earnings of flax-spinners.] [*London*, 1822.] 125 pp. F°. (Parl. Papers. Sess. 1822, (560). v. 7.)

—— —— Report from the Select Committee [Gt. Britain] on the linen trade of Ireland [with minutes of evidence]. [Earnings of flax-spinners and weavers in Ireland and Scotland. Price of flax depends upon price of wheat. Prices of linen.] [*London*, 1825.] 209 pp. F°. (Parl. Papers. Sess. 1825, (463). v. 5.)

Copies of such parts of the fifth annual report of the Society for the Promotion . . . of the Growth of Flax in Ireland, as relate to . . . the flax crop in . . . 1845 . . . [Value of well-managed flax.] [1846.] 6 pp. (Great Britain. Parl. Papers. Sess. 1846, ([688]). v. 42.)

Flachspreise in Irland, 1850–54, 1860–64, 1870–74, 1880–84. (Zeitschrift des königl. Preussischen Statistischen Bureaus. 27. Jahrg. *Berlin*, 1887. St. K. xii. F°.)

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Flax, cont'd.

Wood (A. B.) Linen and flax industries of Europe. (U. S. Cons. Rpt. no. 18, pp. 506–513. *Washington*, 1881. 8°.)

Contains table of prices of flax seed in Ireland from 1867 to 1880.

Williams (C. P.) Flax and its manufacture, 1886. (U. S. Cons. Rpts. v. 19, pp. 437–451. *Washington*, 1886. 8°.)

With tables of prices of Belgian flax, 1884–85, and of Riga flax, 1860–1886.

Karel (J.) The Russian flax trade, 1896. (U.S. Cons. Rpts. v. 51, pp. 279–281. *Washington*, 1896. 8°.)

With table of prices.

FOOD STUFFS.

See also AGRICULTURAL PRODUCTS, GRAIN, MEAT, BREAD, etc.

Europe.

Wheat, etc. Returns of the... average... price of wheat, barley, and oats... 1800[–May, 1850]. [Prices of wheat in France, 1829–1848; in Belgium, 1828–1848, and in Prussia, 1828–1849. Prices of butcher's meat, as sold in London markets, 1840–April, 1850. Prices of meat paid at St. Thomas's Hospital, 1800–1849.] [*London*, 1850.] 32 pp., 1 l. F°. (Great Brit. Parl. Papers. Sess. 1850, (460). v. 52.)

—— Same [1849–50]. [*London*, 1851.] 12 pp. F°. (*Idem*. Sess. 1851, (577). v. 53.)

—— Same [1850–1853]. [*London*, 1854.] 12 pp. F°. (*Idem*. Sess. 1854, (468). v. 65.)

Return showing the average retail price per pound avoirdupois of various articles of domestic consumption in some of the principal cities in Europe in 1892. *London*, 1893. 2 ll. F°. (Brit. Parlt. Papers, 1893. v. 89.)

Bowen (H. W.) Food prices in European cities, 1892. (U. S. Cons. Rpts. v. 40, pp. 552–554. *Washington*, 1892. 8°.)

—— —— (In: U. S. Congress, 52. Cong., 2. sess., '92–'93. House of Rep. Misc. doc. No. 108, pp. 552–554. *Washington*, 1893. 8°.)

France.

Baudrier (Julien). Conventions pour la fourniture de la table du duc de Mayenne. (Rev. du Lyonnais. sér. 5, v. 29, pp. 60–69. *Lyon*, 1900.)

Prix moyens, par chef-lieu de département, du pain et de la viande en 1898–1900. (Ministère de l'agriculture. Bull. année 18, pp. 632–633; année 19, pp. 604–605; année 20, pp. 718–719. *Paris*, 1899–1901.)

Germany.

Berlin Silver Commission, 1894. (Appendix to Report of proceedings. U. S. Finance Committee. 53. Cong. 2. Sess. Senate Misc. Docs. 274, pt. 2.)

With tables of average prices of necessaries of life for men and animals in Prussia, 1816–93; wholesale prices of commodities in Germany, 1871–93; and retail prices of beef and pork, 1851–93.

Wirkliche und Mittelpreise der wichtigsten Lebensmittel für Menschen und Thiere in den bedeutendsten Marktorten der preussischen Monarchie während des Kalenderjahres 1900 bezw. des Erntejahres 1869–1900. (Ztsch. d. kön.-preuss. statist. Bureaus. Jahrg. 9–41. *Berlin*, 1869–1901.)

Continued annually.

Neumann (Franz Xaver [Ritter von Spallart]). Die Theuerung der Lebensmittel. (Holtzendorff (F. von) und Oncken (W.) Deutsche Zeit- und Streit-Frag., Jahrg. 3. Heft 38.) *Berlin*, 1874. 8°.

Cohn (G.) Ueber die Vertheuerung des Lebensunterhaltes in der Gegenwart. *Berlin*, 1876. 8°. (Holtzendorff (F. v.) und Oncken (W.) Deutsche Zeit- und Streit-Fragen. Jahrgang v, Heft 77.)

Lincoln (G. F.) Comparative prices of the principal articles of food, etc. *Washington*, 1885. 8°. (U. S. Cons. Rpts. v. 17, pp. 46–47.)

With table: "Differences of price in the case of provisions and the necessaries of life at different points within the German Empire."

Edwards (W. H.) Prices of food products in Germany, 1891. (U. S. Cons. Rpts. v. 37, pp. 382–384. *Washington*, 1891. 8°.)

With table of prices of rye in Aug. of each year, 1887 to 1891.

Wirkliche und Mittel-Preise der wichtigsten Lebensmittel für Menschen und Tiere in den bedeutendsten Marktorten der preussischen Monarchie. (Zeitschrift des königlich preussischen statistischen Bureaus. 1896. Beilage 1–80. *Berlin*, 1896. F°.)

Continued yearly thereafter.

Singer (K.) Lebensmittel-Preise von 1891–98. (Statistisches Jahrbuch. der deutschen Städte. 8. Jahrg., pp. 353–60. *Breslau*, 1900. 8°.)

Ehrenberg (Paul). Die Geldwertsberechnung der Futtermittel. Eine kritische Studie nebst einem Versuch der Geldbewertung der Futtermittel unter Benutzung neuer Gesichtspunkte. *Jena*, 1899. iv, 166 pp., 1 l., 2 tab. 8°.

Murphy (G. H.) Food prices in Germany. 1900. (U. S. Cons. Rpts. v. 63, p. 387. *Washington*, 1900. 8°.)

With table of average prices for food in Prussia.

—— *Baden.*

Preise der wichtigsten Lebensbedürfnisse im Jahre 1891. (Stat. Jahrb. f. d. Grossh. Baden. 1891.)

Continued each year thereafter.

—— *Bavaria.*

Jahres- Durchschnittspreise der Viktualien an verschiedenen Orten Bayerns für die Jahre 1869–1900. (Ztsch. d. kön. bayerisch. statist. Bureau. Jahrg. 1–28, 30, 32. *München*, 1869–1900. 8°.)

Continued annually.

Durchschnitts Preis-Fall der Viktualien an verschied. Orten Bayerns für den Jahren 1898–date. (Zeitschrift des königlich bayerischen statistischen Bureaus. *München*, 1899–date. F°.)

—— *Berlin.*

Berlin. *Statistisches Amt.* Zusammenstellungen... betreffend die Gross- und Kleinhandelspreise der wichtigsten Nahrungsmittel. *Berlin*, 1897. 4°.

Imperfect. For full collation see author card in the document catalogue.

—— *Halle an der Salle.*

Preisentwicklung (Die) der gewöhnlichsten Nahrungsmittel in Halle a./S. von 1871–78. (Jahrbücher für Nationalökonomie und Statistik. v. 34, pp. 83–84. *Jena*, 1879. 8°.)

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Food Stuffs, cont'd.

—— *Hesse.*

Smith (Jas. Hy.) Mayence. 1887. (U. S. Cons. Rpts. v. 20, pp. 673–688. *Washington*, 1887. 8°.)

With comparative table of prices of food for 1884 and 1885 in Hesse.

—— Prices of food in the Grand Duchy of Hesse. 1886. (U. S. Cons. Rpts. v. 19, pp. 132–133. *Washington*, 1886. 8°.)

With tables by months from Oct., 1885, to Mch., 1886; and a comparative table for 1884 and 1885.

—— Food prices in Hesse. 1892. (U. S. Cons. Rpts. v. 40, pp. 274–276. *Washington*, 1897. 8°.)

—— *Munich.*

Harper (J. W.) Prices of provisions in Munich. 1883. (U. S. Cons. Rpt. v. 9, pp. 552–553. *Washington*, 1883. 8°.)

—— *Prussia.*

Diederich (H. W.) Prices of provisions in Prussia. 1899. (U. S. Cons. Rpts. v. 60, p. 88. *Washington*, 1899. 8°.)

—— *Strassburg.*

Lebensmittel-Preise in Strassburg. 1895–99. (Vierteljahrshefte zur Statistik des deutschen Reichs. 1900, 4. H., p. 118. *Berlin*, 1900. F°.)

—— *Württemberg.*

[**Preise** der Lebensmittel.] 1823. (Württemb. Jahrb. 1824.)

Continued each year thereafter until 1872.

Great Britain.

[**Report** from the select committee, Gt. Britain, respecting the high price of provisions. Price of beef and mutton.] April, 1764. (H. of C. Journals. v. 29, pp. 1046–1047.)

Reflections on the present high price of provisions; and the complaints and disturbances arising therefrom. *London: G. Kearsley*, 1766. 1 p. l., 50 pp. 8°.

[**Hustler** (J.)] The occasion of the dearness of provisions, and the distress of the poor: with proposals for remedying the calamity . . . wherein the policy of the bounty given upon the exportation of corn, the inclosing of commons, and enlarging of farms, are impartially considered. With some remarks on a late pamphlet, intituled, A letter to a member of Parliament, on the present distresses of the poor. By a manufacturer [*i. e.*, John Hustler]. *London: W. Owen*, 1767. 3–49 pp. 12°.

Political speculations; or, An attempt to discover the causes of the dearness of provisions and high price of labour, in England . . . [Pt. 1.] *London: J. Almon*, 1767. 1 p. l., v–viii, 5–41 pp. 8°.

Letter (A) to Sir T. C. Bunbury, Bart., one of the members of Parliament for the county of Suffolk, on the poor rates, and the high price of provisions, with some proposals for reducing both. By a Suffolk gentleman. *Ipswich: G. Jermyn*, 1795. 28 pp. 8°.

—— to all the people, and all the magistrates, of this Kingdom, concerning the alarming high price of provisions; shewing how to reduce the prices . . . By a father of a family. *London: The author*, 1795. 21 pp. 8°.

Pownall (T.) Considerations on the scarcity and high prices of bread-corn and bread at the market . . . in a series of letters, first printed in the Cambridge Chronicle, and supposed to be written by Governor Pownall. *Cambridge: F. Hodson*, 1795. viii, 56 pp. 8°.

Imperfect: pages lacking after p. 56.

[**Blane** (*Sir* G.), *bart.*] Inquiry into the causes and remedies of the late and present scarcity and high price of provisions, in a letter to the Rt. Hon. Earl Spencer . . . [By Gilbert Blane.] *London: J. Wright*, 1800. 1 p. l., 79 pp. 2. ed. 8°.

—— —— 2 p. l., 71 pp. 8°.

Edwards (George). Effectual means of providing, according to the exigencies of the evil, against the distress apprehended from the scarcity and high prices of different articles of food. *London: J. Johnson*, 1800. 43 pp. 8°.

[**Symmons** (J.)] Thoughts on the present prices of provisions, their causes and remedies; addressed to all ranks of people. By an Independent gentleman [*i. e.*, John Symmons]. *London: T. Reynolds*, 1800. 2 p. l., 87 pp. 8°.

pp. 79–80 wanting.

Observations on the enormous high price of provisions . . . By a Kentish clergyman. *London: Clement*, 1801. 54 pp. 8°.

Parquot (P. D.) Letters to His Grace the Duke of Portland, and the Earl of Liverpool, etc. On the present high price of provisions. *Manchester: G. Bancks*, 1801. 74 pp. 2. ed. 8°.

Greenwich Hospital [Gt. Britain]. An account of the prices of bread and meat paid at Greenwich Hospital, 1790–92, 1828–1830. [*London*, 1830.] F°. 1 l. (Great Britain. Parl. Papers. Sess. 1830–31, (87). v. 6.)

Great Britain.—*Navy Department.* Navy estimates. (Explanatory accounts.) . . . An account, showing the prices at which . . . provisions and victualling stores have been purchased for . . . the navy in 1832 . . . also the prices of . . . provisions . . . purchased abroad . . . [*London*, 1833.] 4 pp. F°. (Parl. Papers. Sess. 1833, (58). v. 24.)

Greenwich Hospital. [Prices of meat and flour at the hospital in 1838 and 1841; contract prices of beef and salt provisions for the navy, 1835–1841.] [*London*, 1842.] 2 pp. (Great Britain. Parl. Papers. Sess. 1842, (263). v. 40.)

Great Britain.—*Poor law unions.* An account of the prices of the following articles of consumption at the poor law unions throughout England and Wales in June, 1842, and June, 1843:—flour, seconds, thirds, beef, mutton, milk, coals, oatmeal, soap, candles, etc. [*London*, 1843.] 34 pp. F°. (Parl. Papers. Sess. 1843, (554). v. 45.)

Sykes (W. H.) Prices of food in India and England compared. (Royal Statistical Society. Journal. v. 10, pp. 289–316. *London*, 1847. 8°.)

Great Britain.—*Poor relief.* A return of the number of paupers receiving relief . . . in England and Wales during half-years ended at Lady-day 1850 and 1851 . . . with the average price of provisions contracted for . . . [*London*, 1852.] 30 pp. F°. (Parl. Papers. Sess. 1852, (583). v. 45.)

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Food Stuffs, cont'd.

Sales in Liverpool of provisions and bread-stuffs. At prices equivalent to cost free on board in the United States . . . *Liverpool: J. M'Henry & Co.*, 1856. 1 p. l., 7 ff., 8–13 pp. ob. 24°.

High (The) price of food, butcher-meat, meal, and bread-stuffs, etc., stated and illustrated; with reference to what was expected under free trade as established in 1847 . . . By a writer to the signet. *Edinburgh: The Author* [1860]. 36 pp. 8°.

Italy.

Italy.—*Statistica, Direzione della.* Pressi di alcuni generi alimentari sui mercati principali. (Annuario statistico Italiano. *Roma*, 1881. 8°.)
Continued each year thereafter.

—— —— Movimento dei prezzi di alcuni generi alimentari dal 1862–'85 . . . [Diagrams.] *Roma*, 1886. 4°. (Minist. di agricultura.)

Japan.

Van Buren (Thomas). Labor in Japan. (U.S. Consular Reports, no. 2, p. 56. *Washington*, 1880. 8°.)
Contains tables of prices of food.

Malta.

Grout (J. H.), *jr.* United States trade with Malta, 1898. (U. S. Cons. Rpts. v. 57, pp. 362–365. *Washington*, 1898. 8°.)
With table of prices of necessary articles.

Mexico.

Campbell (R. C.) Agriculture, mines, and factories in Mexico, 1885. (U.S. Cons. rpts. v. 19, pp. 484–494. *Washington*, 1885. 8°.)
With table showing average prices of provisions in Monterey.

Netherlands.

Netherlands.—*Statistiek, Centrale Commissie voor de.* Prijzen van levensmiddelen, 1857–84 [*sic*]. (Jaarcifers voor het k. der Nederlanden, no. 1. *s'Gravenhage*, 1881. 8°.)
Continued each year thereafter.

Spain.

Turner (R. W.) Food prices in Cadiz, 1891. (U. S. Cons. Rpts. v. 37, pp. 501–509. *Washington*, 1891. 8°.)

Switzerland.

Uebersicht der Lebensmittelpreise und der Preiseaufschläge von 1848/50 bis 1870/72 und der Preise im Jahr 1877. (Zeitschrift für Schweizerische Statistik. 14. Jahrg., 1878, p. 168. *Bern*, 1878. F°.)

—— *Bern.*

Mühlemann (C.) Einfluss der wichtigsten Nahrungsmittelpreise auf die Bewegung der Bevölkerung im Kanton Bern während dem 100 jährigen Zeitraum 1782–1881. (Zeitschrift für Schweizerische Statistik. 18. Jahrg., 1882, pp. 59–70.) *Bern*, 1882. F°.)

—— *St. Gall.*

Zuppinger (C.) Die Weizen- und Brotpreise in 20. Gemeinden des Kantons St. Gallen im Jahre 1898. (Ztschr. f. schweiz. Statistik. Jahrg. 36, pp. 238–256. *Bern*, 1900.)

—— *Zürich.*

Bertschinger (H.) Lebensmittelpreise in Zürich von 1800 bis 1872. (Zeitschrift für Schweizerische Statistik. 9. Jahrg. 1873, pp. 125–128. *Bern*, 1873. F°.)

Lebensmittelpreise in Zürich für 1873 und für die früheren Jahre dieses Jahrhunderts. (Jahrbücher für Nationalökonomie und Statistik. v. 22, pp. 68–70. *Jena*, 1874. 8°.)

United States.

Statements relative to the prices of wheat and flour, and provisions, in the United States, and also in British North America . . . [*London*, 1842.] 15 pp. F°. (Great Britain. Parl. Papers. Sess. 1842, ([362]). v. 40.)

Ford (Worthington C[hauncey]). Dear food. *New York: Bradstreet, Pr.*, 1882. 32–45 pp. 8°.
Repr.: International Rev., Jan., 1882.

Food prices. (Maryland. Indus. Stats. and Inform. Bur. 1. bienn. rpt. 1884/85, pp. 187–201.)

Weeks (Jos. D.) Report on the average retail prices of necessaries of life in the U. S. n. t. p. [*Washington*, 1885?] 117 pp. 4°. (U. S. 10 Census. v. 20.)

Wholesale and retail prices of groceries and meats for 1891–95. (New York Labor Stats. Bur. 14. ann. rpt. 1896, pp. 819–865.)

Retail prices [of necessaries of life, 1893 and '94]. (Maine. Indus. and Labor Stats. Bur. 8. ann. rpt. 1894, pp. 75–110.)

—— prices of groceries and supplies, 1894. (New Jersey. Labor and Indus. Stats. Bur. 17. ann. rpt. 1894, pp. 137–151.)

—— prices [of necessaries of life]. (Maine. Indus. and Labor Stats. Bur. 12. ann. rpt. 1898, p. 19.)
Comparative tables for 1893, '94, '97, '98.

Cincinnati (The) Price Current statistical annual . . . provision and grain trade statistics . . . 1901. *Cincinnati*, 1901. 4°. (Cincinnati Price Current. v. 58, no. 17. Supplement.)

FRUIT.

United States.—*Foreign Commerce Bureau.* Dried fruits in Germany. 1899. (Cons. Rpts. v. 62, pp. 69–76. *Washington*, 1899. 8°.)
With tables of prices.

Halstead (M.) Fruit prices in London. 1900. (U. S. Cons. Rpts. v. 64, pp. 397–398. *Washington*, 1900. 8°.)

GAS.

Leroy-Beaulieu (P.) Un commencement d'application du collectivisme: la fixation du prix des chose par arrête prefectoral; la gaz à Paris. (L'Économiste français. 11. année, v. 1, pp. 597–599. *Paris*, 1883. F°.)

Washburn (A. H.) Public works of German municipalities. 1892. (U. S. Cons. Rpts. v. 40, pp. 202–214. *Washington*, 1892. 8°.)
With table showing price of gas.

Leroy-Beaulieu (Paul.) De l'abaissement du prix du gaz et du prix de l'electricité à Paris. (L'Économiste français. 27. année, vol. 1, pp. 737–39. *Paris*, 1899. F°.)

GLOVES.

Roosevelt (G. W.) Glove and glove-leather manufacture in Brussels. 1892. (U. S. Cons. Rpts. v. 40, pp. 413–415. *Washington*, 1892. 8°.)
With table showing cost per dozen.

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GRAIN.

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General.

Accounts and papers [Gt. Britain] relating to [prices of] corn and grain . . . Consuls' returns [during 1826, relative to the prices of foreign corn in 1700–1825] . . . Resolutions on the corn laws . . . *London* [1827]. v. p. F°. (Great Britain. Parl. Papers. Sess. 1826–27, v. 16.)

Wheat. Returns of the highest and lowest annual average price of wheat . . . 1815–1838, in England, Prussia, Posen, and other countries. [*London*, 1840.] 4 pp. F°. (Great Britain. Parl. Papers. Sess. 1840, (177). v. 44.)

Foreign corn. A return of all accounts . . . from His Majesty's consuls abroad, relative to the prices of foreign corn, during the years 1822 and 1823. [*London*, 1824.] 68 pp. F°. Great Britain. Parl. Papers. Sess. 1824, (209). v. 18.)

—— A return of all accounts . . . received from His Majesty's consuls abroad, relative to the prices of foreign corn during the year 1824 . . . [*London*, 1825.] 71 pp. F°. (Great Britain. Parl. Papers. Sess. 1825, (42). v. 20.)

—— A return of all accounts . . . from His Majesty's consuls abroad, relative to the prices of foreign corn, during the year 1825 . . . [*London*, 1826.] 71 pp., 1 l. F°. (Great Britain. Parl. Papers. Sess. 1826, (153). v. 21.)

Accounts and papers [Gt. Britain] relating to [prices of] corn, grain, wheat, etc. Consuls' returns [relative to the prices of foreign corn in 1827]. Resolutions on the corn laws . . . [*London*,] 1828. v. p. F°. (Great Britain. Parl. Papers. Sess. 1828. v. 18.)

—— Consuls' returns . . . Accounts . . . from His Majesty's consuls abroad relative to the prices of foreign corn during the year 1828. [*London*, 1829.] 101 pp. 1 l. F°. (Great Britain. Parl. Papers. Sess. 1829, (139). v. 17.)

—— Consuls' returns . . . Accounts . . . from His Majesty's consuls abroad, relative to the prices of foreign corn during the year 1829. [*London*, 1830.] 100 pp. F°. (Great Britain. Parl. Papers. Sess. 1830, (275). v. 22.)

—— Consuls' returns . . . Reports relative to the price of corn in foreign countries [during the year 1830] . . . made by His Majesty's consuls abroad . . . [*London*, 1831.] 104 pp. F°. (Great Britain. Parl. Papers. Sess. 1831, (72). v. 17.)

—— Consuls' returns . . . Relative to the price of corn [1831–1832], in foreign countries . . . made by His Majesty's consuls abroad . . . [*London*, 1834.] 130 pp. F°. (Great Britain. Parl. Papers. Sess. 1834, (18). v. 49.)

—— (Consuls' returns.) Returns . . . from Her Majesty's consuls abroad, relative to the prices of foreign corn [in America], 1834–1840 . . . [*London*, 1841.] 62 pp. F°. (Great Britain. Parl. Papers. Sess. 1841, (378). v. 26.)

Accounts and papers [Great Britain]. Trade; corn; etc. [Returns from Her Majesty's consuls abroad relative to prices of foreign corn and grain, 1834–1840. Correspondence relative to price at which foreign grain could be imported into England.] [*London*, 1841.] 1 v. F°. (Great Britain. Parl. Papers. 1841, sess. 2. v. 7.)

Return "of the price of wheat per English quarter in France, Belgium and Prussia in 1835, 1845, 1855 and 1885, and the import dnties." [*London*, 1887.] 4 pp. F°. (Great Britain. Parl. Papers. Sess. 1887, (247). v. 66.)

Foreign corn. (Consuls' returns.) . . . Returns . . . from Her Majesty's consuls abroad, relative to the prices of foreign corn, for the year 1841. [*London*, 1842.] 110 pp. F°. (Great Britain. Parl. Papers. Sess. 1842, (562). v. 46.)

Abstracts of information relative to corn and other agricultural produce, received from Her Majesty's ministers and consuls on the continent of Europe, during the latter months of . . . 1841, and January, 1842. [Prices of corn and grain. Corn law in Holland.] [*London*, 1842.] 30 pp., 1 l. F°. (Great Britain. Parl. Papers. Sess. 1842, ([359]). v. 40.)

Foreign corn. (Consuls' returns.) . . . Returns of accounts . . . from Her Majesty's consuls abroad, relative to the prices of foreign corn, for the year 1842; also . . . the average price in each place . . . 1807–1842 . . . [*London*, 1843.] 120 pp. F°. (Great Britain. Parl. Papers. Sess. 1843, (397). v. 53.)

Rawson (R. W.) Prices of grain in Prussia and England. (Royal Statistical Society. Journal. v. 5, pp. 32–46. *London*, 1842. 8°.)

Wheat. A "return of the prices of wheat . . . 1844–1849 . . . at Riga, Odessa, Koenigsberg, Dantzig, Hamburg, Antwerp, Havre, Nantes, Marseilles, Alicante, Leghorn, Trieste, New York, Philadelphia, New Orleans, and Montreal." [*London*, 1850.] 14 pp., 1 l. F°. (Great Britain. Parl. Papers. Sess. 1850, (206). v. 52.)

Kremp (J. H.) Über den Einfluss des Ernteausfalls auf die Getreidepreise während der Jahre 1846–1875 in den hauptsächlichsten Ländern Europas. *Jena: G. Fischer*, 1879. iv, 1 l., 162 pp., 2 pl. 8°. (Staatswiss. Seminar Halle a. S. Samml. nationalökonom. und statistis. Abhandl. v. 2, n. 2.)

Rescher (W.) Du commerce des grains et des mesures à prendre en cas de cherté. Traduit de l'allemand avec l'autorisation de l'auteur et annoté, par M. Block. *Paris: Guillaumin et Compie*, 1854. 2 p. l., 200 pp. 8°.

Theories as to the price of wheat. (The Economist. v. 12, pp. 1229–30. *London*, 1854. F°.)

Jevons (William Stanley). The solar period and the price of corn. (In his Investigations in currency and finance. pp. 194–205. *London*, 1884. 8°.)

Read at meeting of the British Association at Bristol, 1875. Section F.

Földes (Bela). Die Getreidepreise in den Jahren 1881–85. (Statistische Monatschrift. v. 13, pp. 379–385. *Wien*, 1887. 8°.)

Hansen (Johannes). Untersuchungen über den Preis des Getreides mit besonderer Rücksicht auf den Nährstoffgehalt desselben. (Staatswissenschaftliche Studien. Bd. 1, Heft 2. *Jena*, 1887. 8°.)

Metzler (Gustav Karl). Statistische Untersuchungen über den Einfluss der Getreidepreise auf die

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Grain, cont'd.

Brotpreise und dieser auf die Löhne. (Staatswissenschaftliche Studien. Bd. 1, Heft 5. *Jena*, 1887. 8°.)

Ruhland (G.) Die Agrarfrage und das internationale Grosskapital. *Wien: Mayer & Co.*, 1895. 23 pp., 1 chart. 8°. (Oesterreichische Leo-Gesellschaft. Vorträge und Abhandlungen. no. 1.)

Zur Statistik der Preise. Grosshandels-Preise von Weizen, Roggen, Gerste, Hafer, an deutschen und fremden Börsen-Plätzen für die 5 Jahre 1895 bis 1899. (Vierteljahrshefte z. Statistik d. deutschen Reichs. Jahrg. 9, Heft 3, pp. 16–23. *Berlin*, 1900.)

Grosshandels-Preise von Roggen und Weizen an deutschen und fremden Börsen-Plätzen. (Vierteljahrshefte zur Statistik des Deutschen Reichs. Jahrg. 1898, Heft 4, p. 111. *Berlin*, 1898. F°.)

Du Bois (J. T.) Rise in price of wheat in Europe. 1898. (U. S. Cons. Rpts. v. 57, pp. 552–553. *Washington*, 1898. 8°.)

Preise von Weizen in Berlin, Chicago, New York, Liverpool und Paris, an den einzelnen Börsentagen der Jahre 1899 und 1900. (Vierteljahrshefte zur Statistik des Deutschen Reichs. Jahrg. 10, 1901. Heft 1, pp. 54–57. *Berlin*, 1901.)

Hooker (R. H.) The suspension of the Berlin Produce Exchange and its effect upon corn prices. (Jour. Roy. Statist. Soc. v. 64, pp. 574–604. *London*, 1901.)

Austria-Hungary.

Perioden-besw. Jahresdurchschnittspreise der 4 Hauptgetreidearten in Oesterreich und Ungarn während 1801 bis 1870. (Zeitschrift des königl. Preussischen Statistischen Bureaus. 27. Jahrg. 1887, p. 125. *Berlin*, 1887. F°.)

Jahresdurchschnittspreise der 4 Hauptgetreidearten in Oesterreich und Ungarn während 1871 bis 1885. (Zeitschrift des königl. Preussischen Statistischen Bureaus. 27. Jahrg. 1887. p. 125. *Berlin*, 1887. F°.)

Belgium.

Marktpreise von Getreide und Kartoffeln in Belgien in den Jahren 1898 bis 1900. (Vierteljahrshefte zur Statist. d. deut. Reichs. Jahrg. 10 (1901), Heft 3, pp. 35–36. *Berlin*, 1901.)

Canada.

Wheat and flour. A return of the prices of wheat and flour. A return of the prices of wheat and flour at the . . . British ports in North America . . . [1836–1842]. [*London*, 1843.] 1 l. F°. (Great Britain. Parl. Papers. Sess. 1843, (231). v. 53.)

Denmark.

Barley and oats. A statement showing the average prices of barley, at the Copenhagen market, 1838–1841; a similar return from the port of Stettin, for the same period, as to oats. [*London*, 1842.] F°. (Great Britain. Parl. Papers. Sess. 1842, (129). v. 40.)

Perioden-Bezw. Jahresdurchschnittspreise der 4 Hauptgetreidearten in Dänemark während 1854 bis 1885. (Zeitschrift des königl. Preussischen Statistischen Bureaus. 27. Jahrg. 1887. p. 124. *Berlin*, 1887. F°.)

France.

Dupuy (L.) Table du prix du setier de blé, mesure de Paris, 1327–1581. (In Paris Inst. Acad. Inscr. Hist. et Mem., Vol 28, 1761; and in Leber, C. Col. d. diss., v. 7. 1838.)

Grassoreille (G.) Prix du blé à Paris du XIVe au XVIIIe siècle d'après les registres du chapitre de Notre-Dame. (Société de l'histoire de Paris et de l'Ile-de-France. Bulletin. 7. année, 1. livraison, Janvier, pp. 107–117. *Paris*, 1880. 8°.)

Humblot (J. C.) Les mercuriales de Langres du XVe au XIXe siècle. (Rev. de Champagne et de Brie. (v. 22,) Sér. 2, v. 9, pp. 641–664. *Arcis-sur-Aube*, 1898. 8°.)

Duffaud (P.) Note sur le prix des grains à Poitiers depuis trois siècles. (In Paris. Inst. Acad. Sci. Mém. div. sav. v. 17. 1862.) Chart.

Pannier (L. A. E.) Prix des grains sur le marché d'Abbeville depuis l'année 1590. (In: Abbeville. Soc. d'Em. Mem., 1861–66. 2. pt.)

Prix (Le) du blé depuis 1650 jusqu'à 1870. (L'Économiste français. 22. année, v. 1, p. 11. *Paris*, 1894. F°.)

Messance or **Messange.** — *pseud.* Recherches sur la population d'Auvergne, de Lyon [etc.], avec des reflexions sur la valeur du bled . . . 1674–1764. *Paris*, 1766. 4°.

Attributed to l'Abbé Audra and M. de La Michaudière.

Dupré de St.-Maur (N. F.) Recherches sur la Valeur des Monnoies, et sur le Prix des Grains, avant et après le Concile de Francfort. 12°. *Paris*, 1762.

Block (C.) Le commerce des grains dans la généralité d'Orléans (1768), d'après la correspondance inédite de l'intendant Cypierre. *Orléans: H. Herluison*, 1898. 1 p. l., 169 pp., 1 tab. 4°.

Creuzé-Latouche (J. A.) Rapport des députés de la Convention Nationale réunis, pour présenter leurs idées en faveur de la liberté entiére du commerce des grains. *Paris: Imp. nat.*, 1792. 48 pp. 8°.

Prices of wheat, 1756–1790.

Memoire sur la fixation du maximum du price des grains dans toute la France, remis au comité d'agriculture de la Convention National l'An premier de la Republique. *Paris: Imp. des Frères Chaionieau* [1793]. 15 pp. 8°.

Archives statistiques du ministère des Travaux publics de l'Agriculture et du Commerce, publié par le ministre secretaire d'État de ce département en 1837. *Paris*, 1837. x, 306 pp. 4°.

Gives prices of cereals from 1756 to 1835.

Loroy-Beaulieu (Paul). Une contradiction économique: la baisse du prix du blé et la hausse du prix du pain. (L'Économiste française. 11. année, vol. 1, pp. 189–191, 221–223. *Paris*, 1883. F°.)

Muller (Paul). Les droits de douane et le prix des céréales. (L'Économiste français. 11. année, vol. 1, pp. 290–291. *Paris*, 1883. F°.)

Walker (G.) General statistics of France. 1886. (U. S. Cons. Rpts. v. 19, pp. 41–45. *Washington*, 1886. 8°.)

With table of average yearly market prices for wheat in France, from 1871 to 1884.

Michel (Georges). La crise agricole et le prix du blé. (L'Économiste français. 21. année, vol. 2, pp. 423–25. *Paris*, 1893. F°.)

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Grain, France, cont'd.

—— La baisse du blé, les moyens proposés pour y remédier. (L'Économiste français. 27. année, vol. 2, pp. 788–90. *Paris*, 1899. F°.)

Prix payés en 1899 par l'administration de l'assistance publique pour les denrées consommées dans ses établissement. (Bull. de l'office du travail. Année 7, pp. 750–751. *Paris*, 1900.)

Germany.

Uebersicht der Durchschnittspreise der Haupt-Getreide-Arten vom 1. Nov. bis 31. Dec. der 50 Jahre 1808 bis 1857 an den bei Festellung der Ablösungs-Normalpreise in Betracht kommenden Marktorten des Königs. Hannover und der Nachbarstaaten. (Statistik des Konigreichs Hannover. Hft. 7, 19–51.)

Maispreise zu Magdeburg, Hannover, ü. Frankfort a. M. in den einzelnen Monaten des Jahres 1881. (Zeitschrift des königl. Preussischen Statistischen Bureaus. 23. Jahrg. 1883, p. 125. *Berlin*, 1883. F°.)

Preise der Hülsenfrüchte im Jahre 1881, zu Kassel, Nordhausen und Hannover. (Zeitschrift des königl. Preussischen Statistischen Bureaus. 23. Jahrg. 1883, p. 124. *Berlin*, 1883. F°.)

Schnider (A.) Statistische Untersuchungen über den Zusammenhang der Preise von Roggen, Roggenmehl im Gross- ü. Kleinhandel ü. Roggenbrot in 4 deutschen Städten während 1881–1889. (Zeitschrift des königl. Preussischen Statistischen Bureaus. 31. Jahrg., pp. 179–195. *Berlin*, 1891. F°.)

Kremp (J. H.) Ernten und Fruchtpreise in Preussen, Bayern, Würtemberg und Baden. (Jahrbücher für Nationalökonomie und Statistik. 2. F., 9. Bd., pp. 341–378. *Jena*, 1884. 8°.)

Francke (L.) Deutschlands Getreidehandel und Getriedepreise. (Zeitschrift des königl. Preussischen Statistischen Bureaus. 27. Jahrg. 1887, pp. 113–138. *Berlin*, 1887. F°.)

Monaghan (J. C.) Prices of breadstuffs in Germany, during 1888–1889. (U. S. Cons. Rpts. v. 32, pp. 294–296. *Washington*, 1889. 8°.)

Köttgen (August). Studien über Getreideverkehr und Getreidepreise in Deutschland. (Staatswissenschaftliche Studien. 3. Bd., 4. Heft. *Jena*, 1890. 8°.)

Raffalovich (Arthur). La hausse du seigle en Allemagne. (L'Économist française. 18. année, vol. 1, pp. 426–28. *Paris*, 1890. F°.)

—— Le renchérissement du seigle en Allemagne. (L'Économiste français. 19. année, vol. 2, pp. 75–77. *Paris*, 1891. F°.)

Smith (J. H.) The grain question in Germany. 1891. (U. S. Cons. Rpts. v. 35, pp. 635–646. *Washington*, 1891. 8°.)
With tables of relative prices of wheat and rye, 1879–1890.

Conrad (J.) Die Monatspreise des Getreides. (Jahrbücher für Nationalökonomie und Statistik. 3. F., 9. Bd., pp. 247–72. *Jena*, 1895. 8°.

Stumpfe (Emil). Der kleine Grundbesitz und die Getreidepreise. [4]+130 p. (Staats- ü. socialwiss. Beitr. v. 3, no. 2. *Leipzig*, 1897.)

Lippert (Gustav). Getreidepreise und Getreidezölle. Plate. (Ztsch. f. Volkswirt. Socialpol. u. Verwaltung. v. 8, pp. 276–314. *Wien*, 1899.)

Weizen- und Roggen-Preise auf deutschen Fruchtmärkten, Oktober 1898 bis Januar 1900. 3 pl. (Vierteljahrshefte zur Statistik d. deutschen Reichs. Jahrg. 9, 1900, Heft 1, pp. 207–208. *Berlin*, 1900.)

—— *Altenburg.*

Kornpreise (Die) in der Stadt Altenburg von 1746 bis 1863. (Jahrbücher für Nationalökonomie und Statistik. v. 3, pp. 412–15. *Jena*, 1864. 8°.)

—— *Bavaria.*

Jahresdurchschnittspreise für die 4 Hauptgetreidearten im Königreiche Bayern diesseits des Rheines während 1815 bis 1855. (Zeitschrift des königl. Preussischen Statistischen Bureaus. 26. Jahrg. 1886, p. 228. *Berlin*, 1886. F°.)

Nachweisungen über den Verkauf von Getriede auf den bayerischen Schrannen sowie über die erzielten Durchschnittspreise für das Kalender Jahr. 1869–1900. (Ztsch. d. kön. bayerisch. statist. Bureau. Jahrg. 1–28, 30, 32. Published annually. *München*, 1869–1900.)

Monatliche Durchschnittspreise für die 4 Hauptgetreidearten im ganzen Königreiche Bayern während 1879 bis 1885. (Zeitschrift des königl. Preussischen Statistischen Bureaus. 26. Jahrg. 1886, p. 229. *Berlin*, 1886. F°.)

Nachweisungen über d. Verkauf von Getreide auf d. bayerischen Schrannen, sowie über d. erzielten Durchschnitts-Preise für 1897. (Zeitschrift des koeniglich bayerischen statistischen Bureaus. 1898, pp. 89–94. *München*, 1898. F°.)

—— *Berlin.*

Jahresdurchschnittspreise für die 4 Hauptgetreidearten in Berlin während 1624 bis 1810. (Zeitschrift des königl. Preussischen Statistischen Bureaus. 26. Jahrg. 1886, pp. 225–226. *Berlin*, 1886. F°.)

Höchsten (Die) und die niedrigsten Preise für Weizen und Roggen an der Berliner Börse während 1857 bis 1885. (Zeitschrift des königl. Preussischen Statistischen Bureaus. 26. Jahrg. 1886, p. 226. *Berlin*, 1886. F°.)

—— *Breslau.*

Martinipreise für die 4 Hauptgetreidearten in Breslau während 1775 bis 1815. (Zeitschrift des königl. Preussischen Statistischen Bureaus. 26. Jahrg. 1886, p. 226. *Berlin*, 1886. F°.)

—— *Dresden.*

Brotfrucht-Preise in Dresden 1852–95. (Zeitschrift des kgl. Preussisch. Statistischen Bureaus. Stat. Corresp. XXIX. *Berlin*, 1897. F°.)

—— *Hamburg.*

Jahresdurchschnittspreise der 4 Hauptgetreidearten in Hamburg während 1851 bis 1886. (Zeitschrift des königl. Preussischen Statistischen Bureaus. 27. Jahrg. 1887, p. 125. *Berlin*, 1887. F°.)

—— *Hanover.*

Hanover.—*Statistisches Bureau.* Uebersicht der Durchschnittspreise der Hauptgetreidearten an den bei Feststellung der Ablösungs-Normalpreise in Betracht kommenden Marktorten des königreichs Hannover und der Nachbarstaaten. Nov., 1808/57–Dec., 1858/65. [*Hannover*, 1858–66.] F°. (Beiträge zur Statistik des vormaligen Königr. Hannover. Heft 6², 12².)

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Grain, cont'd.

—— *Moringen.*

Scheibe (K.) Alte Moringer Markt-Kornpreis. (Hannoversche Geschichtsblätter. 1899. No. 33. *Hannover*, 1899. 8°.)

—— *Munich.*

Jahresdurchschnittspreise für die 4 Hauptgetreidearten auf der Schranne in München während 1637 bis 1855. (Zeitschrift des königl. Preussischen Statistischen Bureaus. 26. Jahrg. 1886, p. 228. *Berlin*, 1886. F°.)

—— *Halle a./S.*

Martinipreise für die 4 Hauptgetreidearten in Halle a./S. während 1600 bis 1749. (Zeitschrift des königl. Preussischen Statistischen Bureaus. 26. Jahrg. 1886, p. 225. *Berlin*, 1882. F°.)

—— *Palatinate.*

Jahresdurchschnittspreise für die 4 Hauptgetreidearten im Regierungsbezirke der Pfalz während 1818 bis 1855. (Zeitschrift des königl. Preussischen Statistischen Bureaus. 26. Jahrg. 1886, p. 229. *Berlin*, 1886. F°.)

—— *Prussia.*

Conrad (J.) Die Getreidepreise im preussischen Staate von 1765–88. (Jahrbücher für Nationalökonomie und statistik. 2. F., 15. Bd., pp. 313–22. *Jena*, 1887. 8°.)

Engel (E.) Die Getreidepreise, die Ernteerträge ü. der Getreidehandel im preuss. Staate, ca. 1816–1860. (Zeitschrift des königl. Preussischen Statistischen Bureaus. 1. Jahrg. 1861, pp. 249–289. *Berlin*, 1861. F°.)

Jahresdurchschnittspreise für die 4 Hauptgetreidearten im preuss. Staate während 1816 bis 1881. (Zeitschrift des königl. Preussischen Statistischen Bureaus. 26. Jahrg. 1886, p. 226. *Berlin*, 1886. F°.)

Prices of corn in Prussia. (Royal Statistical Society. Journal. v. 1, pp. 493–505. *London*, 1839. 8°.)

Bewegung der Getreidepreise in Preussen, 1866–1876. (Zeitschrift des königl. Preussischen Statistischen Bureaus. 17. Jahrg. 1877, p. 194. *Berlin*, 1877. F°.)

Bewegung (Die) der Getreidepreise u. s. w. in den sogenannten Erntejahren [1872/73–79/80]. (Zeitschrift des königl. Preussischen Statistischen Bureaus. 20. Jahrg. 1880. St. K. xli–xlii. *Berlin*, 1880. F°.)

Monatliche Durchschnittspreise für die 4 Hauptgetreidearten im preussischen Staaten während 1879 bis 1885. (Zeitschrift des königl. Preussischen Statistischen Bureaus. 26. Jahrg. 1886, p. 227. *Berlin*, 1886. F°.)

Verlauf der Monats-Durchsnittspreise, 1879–80. Beziehungen zwischen Erntemengen und Preisen, 1878–80. (Zeitschrift des königl. Preussischen Statistischen Bureaus. 20. Jahrg. 1880. *Berlin*, 1880. F°.)

—— *Württemberg.*

Durchschnittspreise (Die) von Getreide (Kernen, Gerste, Hafer, Dinkel, Weizen, Roggen) in Württemberg 1766–1895. (Württembergische Jahrbücher, 1896. II, 117–122. *Stuttgart*, 1896. 4°.)

Preise (Ueber die) der Früchte auf den bedeutenderen Kornmärkten des Landes in den Jahren 1839 bis 1844. (Württembergische Jahrbücher, 1845, pp. 189–205. *Stuttgart*, 1845. F°.)

Landesdurchschnittspreise von Kernen, Roggen, Gerste ü. Hafer in den Wintermonaten vom 1. Nov. bis 1. Feb., 1863/64–77/78 [in Württemberg]. (Württembergische Jahrbücher, 1878. Hft. 1, p. 190. *Stuttgart*, 1878. 8°.)

Great Britain.

Rogers (J. E. T.) Prices of wheat, 1380–1484. (Royal Statistical Society. Journal. v. 27, pp. 70–81. *London*, 1860. 8°.)

Lloyd (W. F.) Prices of corn in Oxford in the beginning of the 14. century, also from 1583 to the present time . . . collected from MSS. at Oxford . . . *Oxford: University press*, 1830. viii, 100 pp. 8°.

Corn, etc. Returns . . . [Average price of wheat at Eton and Oxford, 1646–1770. Average price of grain in England and Wales, 1771–1841. Decennial fluctuations in the prices of wheat, 1646–1841. Fiar prices of wheat in Scotland, 1828–1841. Average prices of wheat in Dublin, for same years; and in Guernsey and Jersey, 1820–1841.] [*London*, 1842.] 3 v. F°. (Great Britain. Parl. Papers. Sess. 1842 (181-3). v. 40.)

—— Same [to the year 1842, except fiar prices, and prices at Eton and Oxford, which remain the same]. [*London*, 1843.] 74 pp. F°. (*Idem*, 1843, (177). v. 53.)

Great Britain.—*Corn trade committee.* [Report from the select committee, Great Britain, respecting the state of the corn trade. The practices of jobbers and factors. Table of prices from 1661 to 1765.] April, 1766. (H. of C. Journals. v. 30, pp. 762–771.)

Sheffield (*1. baron*), John [Baker Holroyd]. Remarks on the deficiency of grain, occasioned by the bad harvest of 1799; on the means of present relief, and of future plenty. With an appendix, containing accounts of all corn imported and exported, with the prices from 1697 to the 10. October, 1800 . . . *London: J. Debrett*, 1800. 1 pl., 120 pp., 1 l., 2 tab. 8°.

Malt duty. Accounts of the . . . quantity of malt charged in England and Wales . . . [and] of barley . . . imported . . . with the average prices of barley; for twelve years ending with 1747, 1816 and 1847. [*London*, 1848.] 4 pp. F°. (Great Britain. Parl. Papers. Sess. 1847–48 (672). v. 58.)

Accounts relating to corn, etc. [Average prices of wheat in Great Britain, 1748–1752, 1770–1825. Average price of barley in England, 1800–1816.] [*London*, 1830.] 16 pp. F°. (Great Britain. Parl. Papers. Sess. 1830 (84). v. 22.)

Weizenpreise in England seit 125 Jahren, 1761–1885. (Zeitschrift des königl. Preussischen Statistischen Bureaus. 26. Jahrg. 1886. St. K. xxxi. *Berlin*, 1886. F°.)

Jahresdurchschnittspreise des Weizens in England während 1761 bis 1886. (Zeitschrift des königl. Preussischen Statistischen Bureaus. 27. Jahrg. 1887, p. 124. *Berlin*, 1887. F°.)

Wheat [Great Britain]. A return of the average prices of wheat in . . . June and July . . . as

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Grain, Great Britain, cont'd.

compared with those in . . . August and September . . . 1774–1793. [*London*, 1843.] 1 l. F°. (Great Britain. Parl. Papers. Sess. 1843 (234). v. 53.)

Steuart (James). A dissertation on the policy of grain, with a view to a plan for preventing scarcity, or exorbitant prices in the common markets of England. *London: W. Strahan & T. Cadell*, 1783. iv, 42 pp. 8°.

Wheat, corn, etc. Returns . . . [Prices of wheat in Great Britain, 1790–1840.] [*London*, 1841.] 12 pp. F°. (Great Britain. Parl. Papers. Sess. 1841, (383). v. 26.)

Grain [Great Britain]. An account of the average price of all sorts of grain . . . Jan. 5, 1791–Jan. 5, 1821. [*London*, 1821.] 1 l. F°. (Great Britain. Parl. Papers. Sess. 1821, (201). v. 17.)

Grain, flour, and meal. Return "of the quantities of . . . wheat, barley, and oats . . . imported into the United Kingdom . . . . 1792–1848 . . . with the annual average price . . . [*London*, 1849.] 10 pp. F°. (Great Britain. Parl. Papers. Sess. 1849, (443). v. 50.)

Thoughts on the most safe and effectual mode of relieving the poor, during the present scarcity. *London: T. N. Longman*, 1795. 1 p.l., 15 pp. 8°.

Young (Arthur). The question of scarcity plainly stated, and remedies considered. With observations on permanent measures to keep wheat at a more regular price. *London: R. McMillan*, 1800. 1 p. l., 100 pp. 8°.

Brand (John). A determination of the average depression of the price of wheat in war, below that of the preceding peace; and of its readvance in the following; according to its yearly rates from the Revolution to the end of the last peace: with remarks on their greater variations in that intire period. *London: F. & C. Rivington*, 1800. 1 p. l., 102 pp. 8°.

Anderson (James). A calm investigation of the circumstances that have led to the present scarcity of grain in Britain: suggesting the means of alleviating that evil, and of preventing the recurrence of such a calamity in future. (Written Dec., 1800.) *London: J. Cumming*, 1801. 2 p. l., 94 pp., 1 tab. 8°.

Account (An) of the quantities and price of wheat from each city and town in the twelve maritime districts of England and Wales . . . Nov. 5, 1814–Feb. 18, 1815 . . . Ordered . . . to be printed, 6 March, 1815; and to be re-printed, 2 June, 1820. [*London*, 1820.] 25 pp. F°. (Great Britain. Parl. Papers. Sess. 1820, (117.) v. 12.)

Malthus (T. R.) Observations on the effects of the corn laws, and of a rise or fall in the price of corn, on the agriculture and general wealth of the country. *London*, 1814. 8°.

—— [Same.] 3d ed. *London*, 1815. 8°.

Account (An) of the weekly average prices [in England] of barley, oats, rye, and wheat; Jan. 4, 1813–Feb. 24, 1816 . . . [*London*, 1816.] 1 l. F°. (Great Britain. Parl. Papers. Sess. 1816, (271.) v. 14.)

—— of the average price of wheat, barley, and oats, in England and Wales; and also in the twelve maritime districts . . . Jan. 5, 1815–Jan 5, 1818. [*London*, 1818.] 1 l. F°. (Great Britain. Parl. Papers. Sess. 1818, (58.) v. 14.)

Grain. An account of the average price of each sort of grain in Great Britain . . . Jan. 5, 1815–Jan. 5, 1825. [*London*, 1825.] 1 l. F°. (Great Britain. Parl. Papers. Sess. 1825, (75.) v. 20.)

Public debt [Gt. Britain]; prices of the funds, and of wheat . . . A return of the annual average money price of a quarter of wheat . . . 1815–1834. [*London*, 1834.] 4 pp. F°. (Great Britain. Parl. Papers. Sess. 1834, (165.) v. 41.)

Statistical tables of corn prices for 1888, with comparative tables for previous years [1815–1888, etc.]. [*London*, 1889.] 24 pp. F°. (Great Britain. Parl. Papers. Sess. 1889, (5.) v. 60.)

Wheat [Gt. Britain]. An account of the total quantity and cost of wheat purchased by . . . [Victualling] Department . . . from 1816 to 1831 . . . and . . . average price of wheat in each year . . . [*London*, 1832.] 1 l. F°. (Great Britain. Parl. Papers. Sess. 1831–32, (219.) v. 34.)

Account (An) of the average prices of wheat, barley, oats, and beans, in the twelve maritime districts of England and Wales . . . for the two last years ended 15th November, 1818 . . . [*London*, 1819.] 1 l. F°. (Great Britain. Parl. Papers. Sess. 1819, (37.) v. 16.)

Corn [Gt. Britain]. A compare of the average price of corn, for the first week in every month in the years 1819 and 1820. [*London*, 1821.] 1 l. F°. (Great Britain. Parl. Papers. Sess. 1821, (372.) v. 17.)

Average price of corn [in Gt. Britain], for the first week in every month in the years 1819 and 1820. [*London*, 1821.] 1 l. F°. (Great Britain. Parl. Papers. Sess. 1821, (502.) v. 17.)

Corn averages. An account of the average prices of corn per quarter, in England and Wales, for ten years, ending December, 1829 . . . [*London*, 1830.] 1 l. F°. (Great Britain. Parl. Papers. Sess. 1830, (154.) v. 22.)

—— [Gt. Britain]. A return of the average prices of corn for the last six years. [*London*, 1826.] 1 l. F°. (Great Britain. Parl. Papers. Sess. 1826, (137.) v. 21.)

—— averages. An account of the average prices of corn per quarter, in England and Wales, for ten years . . . calculated by the imperial measure. [*London*, 1830.] 1 l. F°. (Great Britain. Parl. Papers. Sess. 1830, (167.) v. 22.)

Great Britain.—*Agriculture Committee.* Report from the select committee [Gt. Britain] to whom the petitions complaining of the depressed state of the agriculture of the United Kingdom, were referred. [With minutes of evidence.] [Depression of prices of produce. Effects on the prices of the abundance of the harvests, extension of tillage, and importation. Fluctuations in the price of corn. Foreign trade in corn. The present corn laws. Warehousing foreign corn.] [*London*, 1821.] 479 pp. F°. (Great Britain. Parl. Papers. Sess. 1821, (668.) v. 9.)

Corn [Ireland]. A return of the average prices of corn per barrel, for the first week in every month

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Grain, Great Britain, cont'd.

in the year 1821, and up to the 5th July, 1822. [*London*, 1822.] 1 l. F°. (Great Britain. Parl. Papers. Sess. 1822, (627.) v. 18.)

Grain. An account of the average price of all sorts of grain in England and Wales, Jan. 5, 1821–Jan. 5, 1823 . . . Weekly average price . . . Jan. 5, 1823–May 4, 1823 . . . [*London*, 1823.] 1 l. F°. (Great Britain. Parl. Papers. Sess. 1823, (424.) v. 13.)

Great Britain.—*Agriculture committee.* Report from the select committee [Gt. Britain] appointed to inquire into the . . . petitions . . . complaining of the distressed state of the agriculture of the United Kingdom. [Objectionable suggestions to lay out £1,000,000 by government purchasing corn for store: this recommended. Foreign warehoused corn. Restrictive laws on importation to be continued. To be modified by lowering the impost price, and imposing a duty.] [*London*, 1822.] 8 pp. F°. (Great Britain. Parl. Papers. Sess. 1822, (165.) v. 5.)

—— —— Second report [from same committee, with minutes of evidence]. [Warehousing foreign corn. Possibilities of clandestinely withdrawing quantities from the stores and bringing it into market.] [*London*, 1822.] 54 pp. (*Idem.* Sess. 1822, (346.) v. 5.)

Grain [Gt. Britain.] An account of the average price of all sorts of grain in each quarter. Jan. 5, 1823–Jan. 5, 1826. [*London*, 1826.] 1 l. F°. (Great Britain. Parl. Papers. Sess. 1826, (50.) v. 21.)

Great Britain. — *Corn inspector.* Foreign corn . . . Instructions given to William Jacob . . . Inspector General of Corn Returns [Gt. Britain], directing an inquiry into the price of corn, and the expense of producing the same, in certain parts of . . . Europe; and . . . report . . . from Mr. Jacob . . . [dated 21st February, 1826]. [Prices of wheat and rye. Prices of live stock. Labourers' wages. Probability of increased production if the English corn laws were repealed. Appendix containing tables of accounts.] [*London*, 1826.] 168 pp. F°. (Great Britain. Parl. Papers. Sess. 1826, (159.) v. 21.)

—— —— Foreign corn. Second report on the agriculture and corn of some of the . . . states of Europe; with observations collected in a journey . . . in the autumn of 1827; by William Jacob. [Appendix of accounts.] [*London*, 1828.] 2 p. l., 199 pp. F°. (*Idem.* Sess. 1828, (258.) v. 18.)

Grain. An account of the grain . . . imported into Great Britain from foreign ports . . . from 5th January, 1827 . . . with the average price of each sort of grain in Great Britain, in each year. [*London*, 1832.] 6 pp., 1 l. F°. (Great Britain. Parl. Papers. Sess. 1831–32, (89.) v. 34.)

Great Britain.—*Grain committee.* Report from the select committee of the House of Lords [Gt. Britain] appointed to inquire into the price at which foreign grain may be shipped in foreign ports . . . and the price at which such grain can be imported into this country . . . [also prices of British corn] with the minutes of evidence . . . [and appendix of tables]. [*London*, 1827.] 216 pp. F°. (Parl. Papers. Sess. 1826–27, (333.) v. 6.)

—— *Statutes.* A bill to make provision for ascertaining from time to time the average price of British corn. [*London*, 1827.] 18 pp. F°. (7–8 Geo. IV.) Parl. Papers. Sess. 1826–27, (382.) v. 2.)

Corn. An account of the quantities and average prices of wheat returned each week . . . 1828–1830, by the Corn Inspectors in London, Liverpool and Manchester; also . . . average prices returned each week by the whole kingdom . . . [*London*, 1831.] 18 pp. F°. (Great Britain. Parl. Papers. Sess. 1830–31, (119.) v. 10.)

Wheat, etc., imported [Gt. Britain]. An account showing the quantities of wheat, wheat flour, barley and oats imported, and . . . entered for home consumption and exportation . . . [July, 1828–July, 1834. Average prices.] [*London*, 1834.] 32 pp. F°. (Great Britain. Parl. Papers. Sess. 1834, (562.) v. 49.)

Corn. An account of the average prices of British wheat, barley and oats, in England and Wales, for the seven years preceding 31st December, 1835 . . . [*London*, 1836.] 1 l. F°. (Great Britain. Parl. Papers. Sess. 1836, (224.) v. 45.)

Wheat, etc. [Gt. Britain.] A return, showing the price of wheat, barley, oats and rye, per quarter, during the average of the whole period from the passing of the act 9 Geo. iv., c. 60, (15th July, 1828) to the passing of the act 5 Vict., c. 14, (29th April, 1842), by which it was repealed. [*London*, 1842.] 1 l. (Great Britain. Parl. Papers. Sess. 1842, (511.) v. 40.)

Corn. An account of the average price of corn, per quarter, in England and Wales, for the year ending December, 1830. [*London*, 1831.] 1 l. F°. (Great Britain. Parl. Papers. Sess. 1831, (125.) v. 17.)

Great Britain.—*Agriculture committee.* Report from the select committee on agriculture with the minutes of evidence . . . appendix and index. [*London*, 1833.] xii, 707 pp. F°. (Great Britain. Parl. Papers. Sess. 1833, (612.) v. 5.)

Bread-corn insurance against famine. Legislation cannot meddle with rent and wages. Evils of paying wages out of the poor rates. Prices of corn. Corn laws; their effect upon steadiness of price. Average price of British grain, 1815–1832. Prices of food, clothing and household stores bought for Greenwich Hospital, and rate of wages to the artizans; with prices of provisions at Bethlem Hospital; and of bread and meat, bought by Commissariat Department, during same years. Prices of Irish salted beef and pork, 1813–1832. Prices of British staple articles, and of West India, Spanish Main, and East India produce, 1826–1833.

Wheat [Gt. Britain] . . . Average prices of wheat in fifteen . . . agricultural and fifteen manufacturing and commercial towns in . . . April, August, and December . . . 1833–1835, 1839–1841. [*London*, 1842.] 8 pp. F°. (Great Britain. Parl. Papers. Sess. 1842, (83.) v. 40.)

—— Same, in each year since 1841. [1842–1848.] [*London*, 1849.] 8 pp. F°. *Idem.* Sess. 1849, (100.) v. 50.)

Great Britain.—*Corn sale committee.* Report from the Select Committee [Gt. Britain] on the Sale of Corn; with the minutes of evidence, appendix, and index. [Fiar prices of corn and grain in England and Scotland. Quotations of the price of corn. Methods of quotation in England, Scotland and Ireland. Fifth report from Committee on High Price of Corn, etc., 18 March, 1796. *London*,

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Grain, Great Britain, cont'd.

1834.] xxxiv, 336, 101, 50 pp., 1 map, 6 pl. F°. (Great Britain. Parl. Papers. Sess. 1834, (517.) v. 7.)

Grain [Great Britain]. A return of the septennial prices of each kind of grain, as prepared for . . . the Tithe Commissioners . . . 1835–1845; together with the annual average prices . . . [*London*, 1845.] 1 l. F°. (Great Britain. Parl. Papers. Sess. 1845, (56). v. 46.)

Great Britain.—*Agriculture committee.* First, Second, [and] Third report from the Select Committee [Great Britain] appointed to inquire into the state of agriculture; with the minutes of evidence, appendixes and index. [*London*, 1836.] 3 v. in 2. F°. (Great Britain. Parl. Papers. Sess. 1836, (79., 189 . 465.) v. 8, pt. 1–2.)

Effect of the corn laws generally; effect on prices. Price of corn in former years and at present. Comparative price of wheat and corn. Cause of low prices, and of late rise in prices. Comparison between wages and price of provisions. Effect of altering prices on wages. Prices of British grain, of bread and meat, and of wool in Norfolk and Suffolk, 1815–1835. Prices of corn and grain in Irish market towns, 1833–35. Prices of provisions at Greenwich Hospital, 1790–1835. Prices of food, clothing, and household stores, bought for Greenwich Hospital, and the rates of wages; with prices of provisions at Bethlem Hospital; and of bread and meat bought by the Commissariat Department, 1815–1835. Prices of wheat and barley at Danzig, Hamburgh and Rotterdam, 1829–1835; and of wheat in Paris, Rotterdam and London, 1832–1836. Letter on the corn laws. Manner of striking fiars prices in Scotland.

Wheat [Great Britain.] A return of the weekly average price of wheat in . . . the several towns from which returns are made to the Comptroller of Corn Returns . . . in . . . 1836, 1839 and 1841. [*London*, 1842.] 50 pp. F°. (Great Britain. Parl. Papers. Sess. 1842, (78). v. 40.)

Report from the select committee of the House of Lords, [of Great Britain] appointed to inquire into the state of agriculture in England and Wales; with the minutes of evidence, appendix and index. [*London*, 1837.] iv, 414, 60 pp. F°. (Great Britain. Parl. Papers. Sess. 1837, (464). v. 5.)

Corn laws. Rise of corn in reign of King William and Elizabeth. Price of corn for 50 years ending 1794. High prices of wool. Prices of wheat at different periods in England, Ireland and France. Wages in England and Ireland. Danger of reduction because of low prices. Average prices of wheat, barley, oats, &c., in the market of Mark-Lane, 1815–1835. Prices of beef, mutton, veal, pork, &c., at Smithfield and Leadenhall Markets, 1815–1835. Prices of clothing in Greenwich, Bethlem and Chelsea Hospitals. 1815–1835. Prices of Irish salted beef and pork, 1813–1836.

Wheat. Bonded corn [Great Britain]. Return of the prices of wheat for . . . 1838 . . . [*London*, 1839.] 1 l. F°. (Great Britain. Parl. Papers. Sess. 1839, (46). v. 46.)

Danson (J. T.) A contribution towards an investigation of the changes which have taken place in the condition of the people of the United Kingdom during the eight years . . . 1839 to the harvest of 1847; and an attempt to develope the connexion (if any) between the changes observed and the variations occurring during the same period in the prices of the most necessary articles of food. *London: M. & W. Collis*, 1848. 40 pp. 8°.

Average Gazette prices of British wheat, barley and oats, per imperial quarter, in each month, 1840 [to date]. (In: Statistical abstract for the United Kingdom. [no. 1] and following.)

Corn. Returns of the quantities and average price, for each six weeks, of corn sold in towns named in the acts 9 Geo. 4, c. 60, and 5 Vict., c. 14. [*London*, 1843.] 1 l. F°. (Great Britain, Parl. Papers. Sess. 1843, (23). v. 53.)

—— etc. Accounts relative to the import, export and consumption of corn, grain, meal and flour in the year 1843 . . . [Prices of wheat in England and Wales, Guernsey and Jersey.] [*London*, 1844.] 10 pp. F°. (Great Britain. Parl. Papers. Sess. 1844, (156). v. 45.)

—— Same, in the year 1844 . . . [*London*, 1845.] 4 pp.; 8 pp. F°. (*Idem.* Sess. 1845, (115, [1]–2). v. 46.)

—— Same, in the year ending Jan. 5, 1846. [*London*, 1846.] 10 pp. F°. (*Idem.* Sess. 1846, (130). v. 44.)

—— Same, in the year ending Jan. 5, 1847. [*London*, 1847.] 14 pp F°. (*Idem.* Sess. 1847, (259). v. 59.)

Wheat [Great Britain]. A return of the weekly average price of wheat, by which the duty is regulated, from the 2d day of March, 1844, to the present time . . . [*London*, 1846.] 2 pp. F°. (Great Britain. Parl. Papers. Sess. 1846, (96). v. 44.)

Grain, flour and meal. A return of grain . . . entered for home consumption, in the United Kingdom, in . . . the three years ending June 5, 1845, 1846 and 1847, etc. [With average prices, alteration of prices, etc.] [*London*, 1847.] 4 pp. F°. (Great Britain. Parl. Papers. Sess. 1847, (649). v. 59.)

Danson (J. T.) On the current price of corn in England during the last ten years, as illustrating the value of agricultural statistics. (Royal Statistical Society. Journal. v. 18, pp. 1–20. *London*, 1855. 8°.)

Population, taxation, etc. Returns . . . [*London*, 1846.] 8 pp. F°. (Great Britain. Parl. Papers. Sess. 1846, (360). v. 44.)

Average price of wheat per quarter, and the fluctuation per cent. under the different laws regarding the duty in England and Wales, 1796–1845. Highest and lowest price of wheat throughout Europe in time of peace, 1821–1835. Fluctuation per cent. in the price in time of war, between 1808 and 1842. Prices of meat per lb. in each quarter, 1842–1845.

Bank of England, etc. Accounts of the notes, securities . . . etc. . . . [Weekly average prices of wheat, barley, oats, rye, beans and peas, 1846–1848, and Jan.-June, 1849. Monthly average prices of imported wheat, wheat-flour, grain and meal, for the same period.] [*London*, 1850.] 24 pp. F°. (Great Britain. Parl. Papers. Sess. 1850, (70). v. 33.)

—— Same [prices of wheat, etc., July, 1849-June, 1853 . . . prices of imported wheat, etc., Jan., 1849–June, 1853]. [*London*, 1853.] 26 pp. (*Idem.* Sess. 1852–53, (953). v. 57.)

—— Same [prices of wheat, etc., July, 1853–Aug., 1856 . . . prices of imported wheat, etc., Jan., 1853, June, 1856]. [*London*, 1856.] 18 pp., 1 l. (*Idem.* Sess. 1856, (410). v. 38.)

—— Same [prices of wheat, etc., Aug., 1856–Aug., 1857 . . . prices of imported wheat, etc., Jan., 1853–June, 1857]. [*London*, 1857.] 18 pp., 1 l. (*Idem.* 1857, Sess. 2, (319). v. 25.)

Grain, flour and meal. Return, "showing the quantities of foreign grain . . . imported into the United Kingdom . . . 1847–1848, and in . . . the

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first four months of 1849; with . . . the average prices of wheat . . ." [*London*, 1849.] 8 pp. F°. (Great Britain. Parl. Papers. Sess. 1849, (422). v. 50.)

—— Meal and flour. Returns "of all grain . . . imported into the United Kingdom . . . March, 1848 . . . and also of the weekly average price of . . . grain since . . . February, 1848. [*London*, 1848.] 8 pp. F°. (Great Britain. Parl. Papers. Sess. 1847–48, (449). v. 58.)

—— Same, to February, 1849 . . . and . . . price of . . . grain since June 21, 1848. [*London*, 1849.] 14 pp., 1 l. F°. (*Idem*. Sess. 1849, (190). v. 50.)

Corn, etc. [Great Britain.] A return "of the . . . quarters of corn . . . with the . . . cwts. of meal . . . imported . . . Jan. 5, 1849–Jan. 5, 1850; specifying the average price of each description of corn monthly . . ." [*London*, 1850.] 6 pp. F°. (Great Britain. Parl. Papers. Sess. 1850, (181). (v. 52.)

—— Same, Jan. 5, 1850–Jan. 5, 1851 . . . [*London*, 1851.] 4 pp. (*Idem*. Sess. 1851, (100). v. 53.)

—— Same, Jan. 5, 1851–Jan. 5, 1852 . . . [*London*, 1852.] 4 pp. (*Idem*. Sess. 1852, (333). v. 51.)

Probable future of price of wheat. (Banker's magazine. v. 10, pp. 213–218. *London*, 1850. 8°.)

Report from the select committee of the House of Lords, [Great Britain], appointed to inquire into the best mode of obtaining accurate agricultural statistics from all parts of the United Kingdom . . . with the minutes of evidence, appendix and index. [*London*, 1855.] xi, 205 pp., 1 plan. F°. (Parl. Papers. Sess. 1854–55, (501). v. 8.)

Mode of ascertaining corn averages not reliable as to prices. Sudden fluctuations in prices caused by want of statistics. Highest and lowest averages of corn imported, 1840–1854. Procedure as to sales of grain in the Haddington corn exchange, 1855.

Wheat, etc. Returns . . . of the quantities of . . . grain . . . sold during . . . 1856 in . . . counties of England and Wales, and the six weeks' average prices thereof . . . [*London*, 1857.] 6 pp. (Great Britain. Parl. Papers. 1857, sess. 1, (105). v. 16).

—— Same, 1857 . . . [*London*, 1858.] 6 pp. (*Idem*. Sess. 1857–58, (355). v. 53.)

Comparative statement "of average price of wheat and of bread, in England, for years 1867 to 1887." [*London*, 1888.] 4 pp. F°. (Great Britain. Parl. Papers. Sess. 1888, (449). v. 81.)

Return "showing total quantities of wheat, barley and oats returned for purpose of the 'Gazette' average prices in England and Wales, in 1880, also of average prices for same. [*London*,] 1881. 8 pp. F°. (Great Britain. Parl. Papers. Sess. 1881, (411). v. 83.)

Poynting (J. H.) Fluctuations in price of wheat. (Royal Statistical Society. Journal. v. 47, pp. 34–64. *London*, 1884. 8°.)

Returns "showing the total quantities of wheat, barley and oats returned for purpose of 'Gazette' average prices in Nov., 1886, and Feb., 1887, and in year 1886, also of average prices of same for same year." *London* [1887]. 15 pp. F°. (Great Britain. Parl. Papers. Sess. 1887, (108). v. 75.)

Great Britain.—*Corn averages committee.* Report from the select committee on corn averages, with proceedings, etc. [*London*, 1888.] viii, 198 pp. F°. (Great Britain. Parl. Papers. Sess. 1888, (312). v. 10.)

With tables of average price of wheat, barley and oats, 1835–87, and prices for 1887 by county, etc.

—— Second report from the select committtee on corn averages, with proceedings, etc. [*London*, 1888.] xxvi, 163 pp. F°. (*Idem*. Sess. 1888, (413). v. 10.)

With tables of average prices for 1886 in England and Wales, fiars prices in Scotland, 1879–1886, and average prices of wheat and oats in Dublin from 1866 to 1887.

Statistical tables of corn prices for the year 1888; with comparative tables for previous years. *London*. 1889. 24 pp. F°. (Br. Parl. Papers, 1889. v. 60.)

—— 1889. *Idem*. 1890. v. 58.

—— 1890. *Idem*. 1890/1. v. 63.

—— 1891. *Idem*. 1892. v. 63.

—— *Ireland.*

Account (An) of the yearly average prices of corn and grain . . . of flour and meal . . . in the Dublin market, from 1812 to 1818. [*London*, 1819.] 1 l. F°. (Great Britain. Parl. Papers. Sess. 1819, (172). v. 16.)

Grain [Ireland]. An account of the weekly average price of all sorts of grain, Jan. 5, 1823–Apr. 25, 1823. An account of the average price of . . . grain sold in the Dublin market for three years, ending 5th January, 1823. [*London*, 1823.] 1 l. F°. (Great Britain. Parl. Papers. Sess. 1823, (358), v. 16.)

—— An account of the average price of all sorts of grain, in Ireland, Jan. 5, 1821–Jan. 5, 1823 . . . [*London*, 1823.] 1 l. F°. (Great Britain. Parl. Papers. Sess. 1823, (559). v. 16.)

Wheat and oats, Ireland. A return of the average price of wheat and oats . . . for . . . seven years next preceding the 1st of November, 1821 . . . seven years preceding the 1st of November, 1830 . . . [and for seven years preceding April 1, 1834]. [*London*, 1834.] 6 pp. F°. (Great Britain. Parl. Papers. Sess. 1834, (244). v. 49.)

—— and oats (Ireland). A return of the yearly average prices of wheat and oats per barrel in Ireland, 1824–1837. [*London*, 1838.] 1 l. F°. (Great Britain. Parl. Papers. (Sess. 1837–38, (177). v. 45.)

—— and oats (Ireland). Returns of the yearly average prices of wheat and oats per barrel . . . [May, 1828–May, 1839.] [*London*, 1839.] 1 l. F°. (Great Britain. Parl. Papers. Sess. 1839, (494). v. 46.)

—— and oats (Ireland). Returns of the average prices of wheat and oats, per barrel, [May, 1831–May, 1840] . . . [*London*, 1840.] 1 l. F°. (Great Britain. Parl. Papers. Sess. 1840, (590). v. 44.)

—— oats and barley (Ireland). Return, "showing the average price per cwt. . . . in the eleven maritime market towns in Ireland . . . 1832–1844." [*London*, 1852.] 4 pp. F°. (Great Britain. Parl. Papers. Sess. 1852, (316). v. 47.)

—— and oats (Ireland). Returns of the average prices of wheat and oats per barrel . . . May 1, 1839–May 1, 1851 . . . [*London*, 1851.] 1 l. F°. (Great Britain. Parl. Papers. Sess. 1851, (323). v. 50.)

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Grain, cont'd.

—— *Scotland.*

Correspondence as to the Kincardineshire Fiars for crop, 1821. *Montrose: D. Hill* [1822]. 16 pp. 8°.

Three letters signed "Investigator."

Maclean (John Hugh). Remarks on fiar prices and produce rents. *Edinburgh: A. Constable & Co.*, 1825. 1 p. l., 82 pp. 8°.

Accounts relating to the average prices of corn. Return in Scotland in 1824; and . . . in 1825. *n. t. p.* [*London*, 1835.] 10 pp. F°. (Great Britain. Parl. Papers. Sess. 1825, (473). v. 20.)

Nicoll (Francis). Observations by a committee of the General Assembly of the Church of Scotland, on striking fiars, or fixing the average prices of grain and oatmeal. Published 1822. A new edition, with tables of recent fiars, and notes concerning the present methods of fixing average rates. To which are added, an abstract of the weight and measure act, 5 Geo. IV. C. 74, and notes relating to the stirling jug, &c. *Edinburgh: Oliver & Boyd*, 1829. 1 p. l., 44, 8 pp. 8°.

—— —— New ed. *Edinburgh: Oliver & Boyd*, 1829. 44, 6 pp. 8°.

—— —— (In: Report from the select committee [Great Britain] on the sale of corn . . .] [*London*, 1834.] Append. pp. 60–84. (Parl. Papers. Sess. 1834, (517). v. 7.)

Corn averages, Scotland . . . Reports of the Committee of the General Assembly of the Church of Scotland on the mode of striking the fiars [or fixing the average prices of grain, etc., of the date 1830–31]. [*London*, 1834.] 14 pp. F°. (Great Britain. Parl. Papers. Sess. 1834, (259). v. 49.)

Ministers' stipends and teinds (Scotland). Abstract of returns . . . [Tables of the fiars prices of grain, in each county, 1841–1847.] [*London*, 1849.] 24 pp. F°. (Great Britain. Parlt. Papers. 1849, (313). v. 42.)

Return "for each county in Scotland of the fiars prices of grain, etc., as struck by the sheriffs and juries of counties, 1879–1886, distinguishing the several classes of grain, etc." [*London*, 1887.] 8 pp. F°. (Great Britain. Parl. Papers. Sess. 1887, (319). v. 66.)

India.

Stirling (E.) Price of grain at Allygurh, near Delhi, from 1804–1832 inclusive. (Jour. Asiat. Soc. of Bengal. v. 3, pp. 620–621. *Calcutta*, 1834. 8°.)

Italy.

Löhne und Weizenpreise in Italien, 1862–1887. (Zeitschrift des königl. Preussischen Statistichen Bureaus. 29. Jahrg. 1889, St. K. xxv. *Berlin*, 1889. F°.

Netherlanas.

Sillem (Jerome Alexandre). Tabellen van marktprijzen van granen te Utrecht in die Jaren 1393 tot 1644. Uit de rekeningen en weeklijsten der domproosdij. 14 tables. (Koninkl. akad. van wetensch. Verhandel. [Afdt. Letterkunde]. n. s., v. 3, no. 4, p. 1–31. *Amsterdam*, 1901.)

Röell (W[illem] F[redrik]), *baron.* Aaanmerkingen aan den koning op den 24. Junij, 1825, ingezonden door den minister van staat baron W. F. Röell, aangaande het antwoord van den Heer Barthelemy, lid der Tweede Kamer van de Staten-Generaal, op deszelfs memorie van 15. Julij, 1824. *n. p.* [1825?] 1 p.l., 65 pp. 8°.

Russia.

Crawford (J. M.) Russian measures concerning grain prices, 1893. (U. S. Cons. Rpts. v. 44, pp. 368–377. *Washington*, 1893. 8°.)

Switzerland.

Getreidepreise im Kanton Zürich in den Jahren 1540–1870, nach Waser und Müller. (Zeitschrift für Schweizerische Statistik. 14. Jahrg. 1878, pp. 172–173. *Bern*, 1878. F°.)

Schwankungen (Die) im Getreidepreise in Zürich während 108 Jahren [1770–1878]. Berechnet und graphisch dargestellt durch das statistischen Bureau der Direction des Innern. (Zeitschrift für Schweizerische Statistik. 14. Jahrg. 1878, opp. 232. *Bern*, 1878. F°.)

Marktpreise des Dinkels in der Stadt Bern vom Jahre 1847 bis zum Jahre 1860, sowohl nach dem Hohlmaass als nach dem Gewicht notirt. (Jahrbücher für Nationalökonomie und Statistik. v. 6, pp. 297–304. *Jena*, 1866. 8°.)

Getreide- (Weizen-) Preise auf den Märkten Rorschach, Zürich und Basel im Jahr 1868. (Zeitschrift für Schweizerische Statistik. 5. Jahrg. 1869, p. 66. *Bern*, 1869. F°.)

Uebersicht über die mittleren Weizenpreise auf den hauptsächlichen schweiz. Märkten während 1865–70. (Zeitschrift für Schweizerische Statistik. 7. Jahrg. 1871, p. 47. *Bern*, 1871.)

Getreidepreise auf dem Markte Bern von 1865 bis 1882 nach Monats- und Jahresdurchnitten. (Zeitschrift für Schweizerische Statistik. 19. Jahrg. 1883, pp. 212–213. *Bern*, 1883. F°.)

Kornpreise (Die) auf den drei schweiz. Haupt-Markten von 1865–1882 nach Monats- ü. Jahresdurchschnitten. (Zeitschrift für Schweizerische Statistik. 19. Jahrg. 1883, pp. 212–213. *Bern*, 1883. F°.)

Jahresdurchschnittspreise der 4 Hauptgetreidearten in Bern während 1865 bis 1882. (Zeitschrift des königl. Preussischen Statistischen Bureaus. 27. Jahrg. 1887, p. 124. *Berlin*, 1887. F°.)

Uebersicht über die mittleren Weizenpreise im Jahr 1871 auf nachfolgenden Plätzen. (Zeitschrift für Schweizerische Statistik. 8. Jahrg. 1872, p. 75. *Bern*, 1872. F°.)

—— über die Getreidepreise auf den drei schweizerischen Hauptgetreidemärkten während 1871–73. (Zeitschrift für Schweizerische Statistik. 10. Jahrg. 1874, p. 194. *Bern*, 1874. F°.)

Getreidepreise auf den Haupt- Markten der Schweiz von 1882–1886 nach Monats- und Jahresdurchschnitten. (Zeitschrift für Schweizerische Statistik. 23. Jahrg. 1887, p. 33. *Bern*, 1887. F°.)

Jahresdurchschnittspreise des Ungarischen weizens in Basel, Zürich und Rorschach während 1882 bis 1886. (Zeitschrift des königl. Preussischen Statistischen Bureaus. 27. Jahrg. 1887, p. 124. *Berlin*, 1887. F°.)

—— des Roggens in Basel und Zürich während 1882 bis 1886. (Zeitschrift des königl. Preussischen Statistischen Bureaus. 27. Jahrg. 1887, p. 124. *Berlin*, 1887. F°.)

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Grain, cont'd.

United States.

Jahresdurchschnittspreise der 4 Hauptgetreidearten in den Vereinigten Staaten während 1862 bis 1885. (Zeitschrift des königl. Preussischen Statistischen Bureaus. 27. Jahrg. 1887, p. 125. *Berlin*, 1887. F°.)

Veblen (Thorstein B.) The price of wheat since 1867. (Journal of Political Economy. v. 1, pp. 68–103; 156–161. *Chicago*, 1893. 8°.)

Hyde (J.) Wheat prices [1867–1895]. 4 pp. sm. 8°. *n. t. p.*

Hooker (R. H.) Farm prices of wheat and maize in America, 1870–99. (Jour. Roy. Statist. Soc. v. 63, pp. 648–657. *London*, 1900.)

Local market prices of grain. (Iowa. Labor Stats. Bur. 5. bienn. rpt. 1892/93, pp. 121–179.)
With tables for 1882–92.

Table showing average Kansas City price of corn in Dec., and local shipping price at stations named, 1888–1892. (Kansas. Labor and Indus. Bur. 9. ann. rpt. 1893, pp. 681–682).

Davis (C. W.) Why the price of corn is low. (Forum. v. 24, pp. 729–43. *New York*, 1898. 8°.)

HOPS.

Austria-Hungary.

Goldschmidt (J.) Commerce and industries of Austria-Hungary, 1891. (U. S. Cons. Rpts. v. 35, pp. 505–580. *Washington*, 1891. 8°.)
With tables of average prices of Saatz hops, 1875–89, and Auscha red hops, 1879–89, and fluctuating prices of beet-root sugar in 1889.

—— Austrian hops, 1892. (U. S. Cons. Rpts. v. 40, pp. 263–273. *Washington*, 1892. 8°.)
With table of average price of Saatz hops at opening, middle and close of harvests from 1875–89, same for Auscha red hops, from 1879–89.

Germany.

Horstmann (G. H.) Hop crop of Germany, Nov., 1882. (U. S. Cons. Rpts. v. 9, pp. 101–104. *Washington*, 1883. 8°.)
Tables of highest selling prices from 1860–82.

—— The hop crop of Germany. (U. S. Cons. Rpts. v. 11, pp. 703–708. *Washington*, 1883. 8°.)
Table of prices.

Great Britain.

Report from the select committee on the hop industry; together with proceedings and minutes of evidence. *London*, 1890. xxiv, 321 pp. F°.)
With table of average price . . . for hops sold from 1865 to 1889. See also index for references to testimony.

IVORY.

Lincoln (G. F.) Antwerp ivory market, 1892. (U. S. Cons. Rpts. v. 40, pp. 589–590. *Washington*, 1892. 8°.)
With table of prices.

KEROSENE.

Karel (J.) Russian kerosene industry, 1895. (U. S. Cons. Rpts. v. 48, pp. 318–322. *Washington*, 1895. 8°.)
With tables of prices at Baku, 1891–95, and in New York and London, Jan.-Mch., 1895.

LEATHER AND HIDES.

United States.—*Foreign Commerce Bureau.* Hides and leather in Europe, 1896. (Cons. Rpts. v. 52, pp. 365–432. *Washington*, 1896. 8°.)
With tables of prices at Antwerp market in 1874, '75, '80, '85, 90–95, average prices in Dusseldorf, 1895, and Cologne.

Great Britain.—*Leather committee.* First, Second [and] Third report. Minutes of evidence taken before the select committee [Gt. Britain] appointed to consider the . . . laws relating to . . . leather. [Prices of hides, skins, leather, bark and shoes.] [*London*, 1816.] 2 p.l., 142 pp. F°. (Parl. Papers. Sess. 1816, (386). v. 6.)

Hides and skins bill [Gt. Britain]. Minutes of evidence taken before the committee on the bill . . . Prices of hides and skins. [*London*, 1824.] 119 pp. F°. (Great Britain. Parl. Papers. Sess. 1824, (323). v. 7.)

LIVING EXPENSES.
See also WAGES.

Influence de droits d'octroi sur les salaires. (Journal des Économistes. 13 année, Avril, 1854. pp. 151–154. *Paris*, 1854. 8°.)

—— des droits d'octroi sur les salaires. (Annales de la Société d'Économie politique. Séance du 5 Avril, 1854. *Paris*, 1889. 8°.)

—— du prix des vivres et de l'abondance de l'or sur les salaires. (Journal des Économistes. 15 année, Avril, 1856. pp. 138–143. *Paris*, 1856. 8°.)

—— du prix des vivres et de l'abondance de l'or sur les salaires. (Annales de la Société d'Économie politique. Séance du 5 Mars, 1856. pp. 274–282. *Paris*, 1889. 8°.)

Prices and wages, Resolutions of the International Statistical Congress. (Economist. v. 18, pp. 843–844. *London*, 1860. F°.)

Böhmert ( ). Ueber die Methoden der socialstatistischen Untersuchungen, mit besonderer Rücksicht auf die Statistik der Löhne ü. Preise. (Zeitschr. Schweiz. Stat. 10. Jahrg. 1874, pp. 142–173.)

State of labor in Europe: 1878. Reports from the U. S. consuls in the several countries of Europe on the rates of wages; cost of living to the laborers, etc. *Washington*, 1879. 428 pp. 8°.

Cout (Le) du vivre a-t-il une influence sérieuse sur la fixation du taux des salaires? (Annales de la Société d'Économie politique. Séance du 5 Mars, 1883, pp. 39–61. *Paris*, 1896. 8°.)

Labor in Europe. Reports from the consuls of the United States in the several countries of Europe on the rate of wages, cost of living to the laboring classes, etc. *Washington*, 1885. 3 v. 8°.)
v. 1–2, Europe; v. 3, America, Asia, Africa, Australia, and Polynesia.

Collet (C. E.), *and* **Bonar** (J.) Wages and the standard of living. (Quarterly Journal of Economics. v. 5, pp. 365–369. *Boston*, 1890. 8°.)

United States.—*Foreign Commerce Bureau.* Metal founding in England, France, and Germany, 1892–93. (Cons. Rpts. v. 42, pp. 353–384.)
With tables of wages and prices.

Modern variations in the purchasing power of gold. An investigation into the extent and causes of recent price variations. (Minnesota. Labor Bur. 5. bienn. rpt. 1895/96, pp. 9–524.)

Richards (Ellen H.) The cost of living as modified by sanitary science. *New York*, 1899. 12°.

Austria-Hungary.

Janssen (E.) Commerce, industries, etc., of

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Living Expenses, cont'd.

Austria-Hungary, 1886. (U. S. Cons. Rpts. v. 19, pp. 1–34.)

With tables of wages and prices of provisions in the 3.-5. districts of Bohemia; table of price and value of grain during 1884 and 1885.

Argentine Republic.

Baker (E. L.) Conditions and prices of labor in the Argentine Republic, 1885. (U. S. Cons. Rpts. v. 18, pp. 1–18.)

With tables of wages paid in the city of Buenos Aires.

Australasia.

Griffin (G. W.) Labor in Australasia, 1890. (U. S. Cons. Rpts. v. 35, pp. 285–302.)

With tables of wages in New South Wales, 1830–1889; of various trades, 1889; average retail price of food, etc., in New South Wales, 1836–88, and monthly in 1889.

Maratta (D. W.) Wages and food prices in Australia, 1895. (U. S. Cons. Rpts. v. 49, pp. 69–75. *Washington*, 1895. 8°.)

—— *New Zealand.*

United States.—*Foreign Commission Bureau.* Wages and prices in New Zealand during 1885. (U. S. Cons. Rpts. v. 21, pp. 104–109.)

Connolly ( ). Organized labor in New Zealand 1890. (U. S. Cons. Rpts. v. 34, pp. 360–366).

With tables of average wages and prices of produce, etc., during 1889.

Belgium.

Ducpetiaux (E.) Budgets économiques des classes ouvrièrs en Belgique. Subsistences, salaries, population. *Bruxelles: Hayez, Imp.*, 1855. 1 p. l., 340 pp. 4°. (Belgium. Statistique, Commission Centrale de.)

Engel (E.) Die Lebenskosten belgischer Arbeiter-Familien früher und jetzt. Ermittelt aus Familien-Haushaltrechnungen und vergleichend zusammengestellt. (In Bull. de l'Inst. Internat. de Stat., Rome, t. 9.)

Slade (W.) Agriculture, mines, smelting furnaces, and woolen fabrics of Belgium. 1885. (U. S. Cons. Rpts. v. 20, pp. 102–120.)

With tables of average wages, and of average prices of grain, 1871–1883.

Canada.

Special report on the condition of the laboring classes in Newfoundland, Quebec, Ontario, and the maritime provinces of Canada. (Rpt. of U. S. Immigration Investigation Commission, 1895. App. F.)

Wages, cost of living, etc.

China.

Bedloe (E.) Labor in Amoy. 1891. (U. S. Cons. Rpts. v. 38, pp. 137–156.)

With tables of wages and food prices.

Jernigan (J. R.) Labor and wages in China. 1895. (U. S. Cons. Rpt. v. 50, pp. 93–96.)

Rodet (Raymond). Budget de la famille Tcheng. (Études pub. par d. pères de la compagnie de Jesus. v. 84, pp. 399–403. *Paris*, 1900.)

Chile.

Wilson (H. L.) Financial conditions in Chile. 1898. (U. S. Cons. Rpts. v. 58, pp. 321–334.)

With tables of prices of some important articles, and wages paid June 1, and Aug. 1, 1898.

Colombia.

Dawson (T. M.) Labor in Colombia. August, 1883. (U. S. Cons. Rpts. v. 10, pp. 678–688.)

Cost of living, wages, prices.

Ecuador.

Beach (H. N.) Wages and cost of living in Ecuador. Nov., 1883. (U. S. Cons. Rpt. v. 11, pp. 351–352.)

France.

Michel (Georges). La France à la fin de l'ancien régime. Les prix des choses nécessaires à la vie et la condition des classes rurales. (L'Économiste français. 24. année, vol. 1, pp. 785–86. *Paris*, 1896. F°.)

Coût (Le) du vivre a-t-il une influence sérieuse sur la fixation du taux des salaires? (L'Économiste français. 11. année, vol. 1, pp. 287–90. *Paris*, 1883. F°.)

Leroy-Beaulieu (Paul). Du prix de l'existence et de la prétendu hausse de la valeur de l'or. (L'Économiste français. 11. année, vol. 1, pp. 565–567, 629–631. *Paris*, 1883. F°.)

—— Le coût de la vie aujourd'hui et il y a trente ans. (L'Économiste français. 23. année, vol. 2, pp. 569–71. *Paris*, 1895. F°.)

—— Les variations et la tendance des prix des objets de première nécessité depuis un siècle. (L'Économiste français. 25. année, vol. 1, pp. 505–507, 541–43. *Paris*, 1897. F°.)

—— *Havre.*

Williams (O. F.) Wages and food prices in Havre. 1891. (U. S. Cons. Rpts. v. 35, pp. 438–442.)

With table of cost of supplies.

—— *Paris.*

Bienaymé (Gustave). Le coût de la vie à Paris à diverses époques. Illus. (Soc. de statist. de Paris. Jour. v. 36, pp. 57–68, pp. 355–360; v. 37, pp. 375–390; v. 38, pp. 83–90; v. 39, pp. 369–382. *Paris*, 1895–98.)

Michel (Georges). La cherté de la vie à Paris. (L'Économiste français. 20. année, vol. 2, pp. 644–46. *Paris*, 1892. F°.)

Desmets (J.) Le coût de la vie à Paris. (La Réforme Économique. 8. année, pp. 362–67. *Paris*, 1899. F°.)

Leroy-Beaulieu (Paul). Le coût de la vie à Paris depuis trois quarts de siècle. (L'Économiste français. 27. année, vol. 1. *Paris*, 1899. F°.)

Germany.

Brugsch (Heinrich [Karl]). Die Kosten des Haushalts in alter Zeit. *Berlin: L. Simion*, 1890. 32 pp. 8°.

Conrad (Johannes). Ueber das Steigen der Lebensansprüche. (Holtzendorff and Oncken. Deutsche Zeit- u. Streit-Frag., Jahrg. 6, Heft 91.) *Berlin*, 1877. 8°.

Vogeler (F.) Wages and food prices in Germany, April, 1882. (U. S. Cons. Rpt. no. 19, pp. 1–5.)

Brewer (M. S.) Labor, wages and living in Germany. 1883. (U. S. Cons. Rpts. v. 13, pp. 304–312.)

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Living Expenses, cont'd.

Potter (J. S.) State of labor in Germany. (U. S. Cons. Rpt. no. 10, pp. 114–117. April, 1881.)

Table of wages of laborers per week, and prices of food staples.

Eberty (E.) Die Hauswirthschaft und der Markt. *Berlin*, 1886. 8°. (Holtzendorff (F. v.) Deutsche Zeit- und Streit-Fragen, n. F. Jahrgang 1, Heft 1.)

Hampke (C.) Das Ausgabebudget der Privatwirtschaften. *Jena: G. Fischer*, 1888. vi, 148, lvii pp. 8°. (Staatswiss. Seminar Halle a. S. Samml. nationalökonom. und statistis. Abhandl. v. 4, no. 6.)

Washburn (A. H.) Wages and cost of living in Germany: (In: U. S. Congress, 52. Congr., 2. sess., '92–'93. House of Rep. Misc. doc. No. 109. pp. 96–104. *Washington*, 1893. 8°.)

Barnes (J. A.) Labor in West Germany. 1899. (U. S. Cons. Rpts. v. 60, pp. 510–512.)

With table of wages, and prices of food.

—— *Brunswick.*

Fox (W. C.) Duchy of Brunswick. 1885. (U. S. Cons. Rpts. v. 19, pp. 365–376.)

With tables of highest and lowest prices to agricultural labor for piece-work in 1866 and 1880, and average monthly and yearly prices (1884) of chief kinds of grain, etc.

—— *Dresden.*

Haug (Heinrich). Die Ämter-Kammergutsund Rentkammer-Rechnungen des Hauptstaatsarchivs zu Dresden. (Neues Archiv f. Sächsische Geschichte u. Altertumskunde. v. 20, pp. 72–104. *Dresden*, 1899.)

—— *Freiburg.*

Conrad (M.) Die Entwicklung der Häuserpreise im Freiburg i./Br. während der letzten 100 Jahre. *Jena: G. Fischer*, 1881. 47 pp. 8°. (Staatswiss. Seminar Halle a. S. Samml. nationalökonom. und statistis. Abhandl. v. 1, no. 6.)

—— *Prussia.*

Wirkliche und Mittelpreise der wichtigsten Lebensmittel für Menschen und Tiere in d. bedeutendsten Marktorten d. preussischen Monarchie während d. k-J., 1895, bezu. d. Erntejahres, 1894–'95. (Zeitschrift d. kgl. preuss. statistischen Bureaus, 1896, pp. 1–80. *Berlin*, 1896.)

—— *Silesia.*

Dithmar (H.) Cost of labor, and subsistence of work-people [in Silesia]. (U. S. Cons. Rpts. v. 19, pp. 427–434).

With tables of wages of coal and ore miners, and mine laborers, 1881–1884, and prices of supplies (food, etc.).

—— *Thuringia.*

Kius (*Dr.*) Die Preis- und Lohnverhältnisse des sechszehnten Jahrhunderts in Thüringen. (Jahrbücher für Nationalökonomie und Statistik. v. 1, pp. 65–78; 279–309; 513–536. *Jena*, 1863. 8°.)

—— *Württemberg.*

Preise der gewöhnlichsten Lebensbedürfnisse ums Jahr 1600. (Württb. Jahrb. 1840, p. 397. *Stuttgart*, 1841. 8°.)

—— der Lebensbedürfnisse, 1842. (Wurttb. Jahrb. 1842, pp. 40–43. *Stuttgart*, 1843. 8°.)

—— ü. Löhne. (Württemb. Jahrb. 1873, '74, '80, '85, and from 1885 continued every year thereafter.)

Statistik (Zur) der Preise ü. Löhne in Württemberg. (Zeitschr. Preuss. Stat. 15. Jahrg. 1875. St. K., i–ii.)

Various; grain highest, 1847, 1854, 1873; food, 1872, 1873; wages, etc.

Great Britain.

Wages and prices a hundred years ago. (Fenland Notes and Queries. v. 4, pp. 227–228. *Peterborough*, 1899. 8°.)

[**Retail** prices of provisions for the working-classes, with the wages and earnings of labourers, and of weavers, spinners, etc., in cotton, linen, and worsted mills and factories in Manchester, Sheffield, Glasgow, Londonderry, and other towns, 1810–1834, 1844/9.] (In: Tables of revenue, population and commerce of the United Kingdom, 1833–1850. pt. 1–4, 17–18.)

Continued as:

[**Average** rate of daily wages paid to persons employed in manufactures in various towns in the United Kingdom and Ireland, 1855–1880. Wages of agricultural labourers in England and Scotland, 1860/1, 1869/70; and in Ireland, 1860.] (In: Miscellaneous statistics of the United Kingdom, 1858–1883. pt. 1–11.)

Wages and prices, 1833. (British Almanac. Companion, 1834, pp. 33–61. *London*, 1834. 12°.)

Hand-loom weavers. Report from assistant hand-loom weavers' commissioners. [*London*, 1839–40.] 5 pts. F°. (Great Britain. Parl. Papers. 1839 (159), v. 42; 1840 (43[1-2]), v. 23; 1840 (217, 220), v. 24.)

Reports on Scotland, France, Belgium, Switzerland, Austria, England, Germany, and Ireland. Wages and earnings of weavers, artizans, agricultural laborers, colliers, etc. Prices of provisions and of machinery. Depressing effect of the corn laws. Comparative wholesale prices of ginghams, cottons, etc., at St. Gall, Switz., and at Glasgow, Scotland. Comparative prices of French and English cottons. Price of coals and labor of getting, at Charleroi. Table of prices of corn and grain in Belgium. Fiars prices of wheat and oatmeal in the east of Scotland, 1830–1836.

Report from the Select Committee [Gt. Britain] on Payment of Wages Bill, and Payment of Wages (Hosiery) Bill; together with the proceedings . . . minutes of evidence, and index. [High prices of provisions at truck shops. The effect of the truck system of payment on wages. Effect of the increased price of provisions on wages.] [*London*, 1854.] xii, 452 pp. F°.) (Great Britain. Parl. Papers. Sess. 1854 (382), v. 16.)

—— from the Select Committee [Gt. Britain] on Stoppage of Wages (Hosiery); together with proceedings . . . minutes of evidence, appendix, and index. [Relation between wages and the prices of goods. Earnings of framework knitters and agricultural labourers.] [*London*, 1855.] xxiv, 704 pp. F°. (Great Britain. Parl. Papers. Sess. 1854–55 (421), v. 14.)

—— First–Forty-ninth report from Select Committee [Gt. Britain] on the Poor Law Amendment Act; with the minutes of evidence [appendixes, and general index]. [*London*, 1838.] 51 v. in 3. F°. (Great Britain. Parl. Papers. Sess. 1837–38, v. 18, pt. 1–3.)

Containing tables of the rates of wages, and statements of the condition of laborers as regards employment, wages, price of provisions and cost of living.

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Living Expenses, Great Britain, cont'd.

Merritt (E. A.) Labor and living in the United Kingdom, Nov., 1883. (U. S. Cons. Rpt. v. 11, pp. 298–323.)

Cost of living, wages, prices at Bradford, Cardiff, Dundee, Glasgow, Leeds, Sheffield, Manchester.

Lane (E. E.) Prices and wages in the pottery industry in England, 1885. (U. S. Cons. Rpt. v. 17, pp. 55–58.)

[**Booth** (C.)] Family budgets: being the income and expenses of twenty-eight British households, 1891–1894. Compiled for the Economic Club, with an introduction. 76 pp. *London: P. S. King & Son*, 1896. 4°.

Morrison (Arthur). Family budgets. A workman's budget. (Cornhill Maga. v. 10, pp. 446–456. *London*, 1901.)

Layard (G. S.) Family budgets. A lower middle-class budget. (Cornhill Maga. v. 10, pp. 656–666. *London*, 1901.)

Colmore (G.) Family budgets. Eight hundred a year. (Cornhill Maga. v. 10, pp. 790–800. *London*, 1901.)

Earle (*Mrs.*) Family budgets. Eighteen hundred a year. (Cornhill Maga. v. 11, pp. 48–61. *London*, 1901.)

Collet (Clara E.) The expenditure of middle-class working women. (Economic Jour. *London*, 1898. 8°. v. 8, pp. 543–553.)

—— *Bradford.*

Shepard (C. O.) Wages and food prices in Bradford, England, Feb., 1882. (U. S. Cons. Rpt. no. 19, pp. 67–69.)

—— *Bristol.*

Lathrop (L. A.) The condition of labor in Bristol. (U. S. Cons. Rpt. v. 11, pp. 662–668.)

—— *Colonies.*

[**Prices** and wages in British colonies. Prices of grain, agricultural produce, provisions and stock, with the rates of wages of various descriptions of labour. *London*, 1832–1842.] (In: Tables of revenue, population and commerce of the United Kingdom . . . , 1834–1844. pt. 3–8, 10, 12.)

The tables in pts. 3–8 are in the supplement. Prices of stock, 1836–42, and rates of wages, 1836–41, begin in pt. 7.

—— Same, 1850–1875. (In: Statistical tables relating to the colonial and other possessions of the United Kingdom, 1856–1878. pt. 1–15.)

—— *Manchester.*

Shaw (Albert D.) Wages of English factory operatives [at Manchester], Dec., 1881. (U. S. Cons. Rpt. no. 15, pp. 12–13.)

Includes prices.

—— *Nottingham.*

Smith (Jaspar). Hosiery mills of Nottingham, May, 1882. (U. S. Cons. Rpts. no. 24, pp. 76–81.)

Contains wages paid, and prices of necessaries of life.

Greece.

Horton (G.) Condition of labor in Greece, 1895. (U. S. Cons. Rpts. v. 50, pp. 287–289.)

With tables of wages and food prices.

India.

Prices and wages in India. Issue [3], 15–18. *Calcutta*, 1885–1901. 8° and 4°.

Statistics of prices and wages in India. (App. XIV to Final report of the Royal Commission appointed to inquire into recent changes in relative values of precious metals. pp. 113–138.) (Great Britain. Parl. Papers. Sess. 1888. C. 5512. 1, v. 45.)

Prices and wages in India. (Statistical atlas of India. 2d ed., 1895. ch. II.)

Patterson (R. F.) Wages and cost of food in India. 1898. (U. S. Cons. Rpts. v. 59, pp. 450–451.)

Italy.

Bertolini (D.) Prezzi di alcune derrate e salari correnti in Venezia ed in alcune città della Dalmazia e del Levante, durante gli anni 1486 a 1490. (Annali di statistica 1881, ser. 2. v. 19, pp. 132–144.)

Welsh (Wm. L.) Labor and wages in Italy, particularly the district of Florence. (U. S. Cons. Rpts. v. 13, pp. 151–167.)

Salaries of officials and wages of laborers.

Bowen (A. O.) Italy in 1889. 1890. (U. S. Cons. Rpts. v. 34, pp. 58–107.)

With tables of average cost of provisions in 1887, and at periods of five years since 1862; same of wages in three cotton and woollen mills; prices of provisions and wages in Rome, Florence, Milan, Genoa, Leghorn, Naples, Palermo and Messina.

Pepper (G. W.) Wages and cost of living in Milan. (In: U. S. Congress, 52. congr., 2. sess., 1892–93. House of Rep. Misc. doc., No. 108, pp. 600–603. *Washington*, 1893. 8°.)

Japan.

Sharp (H.) Prices and wages in Japan. 1897. (U. S. Cons. Rpts. v. 56, pp. 119–122.)

With table of wages in Nov., 1895 and 1897.

Mexico.

Strother (David H.) Living in the city of Mexico, April, 1882. (U. S. Cons. Rpt. no. 20, pp. 223–231. *Washington*, 1882. 8°.)

Includes a "priced catalogue of leading articles of consumption."

Nicaragua.

O'Hara (T.) Nicaragua: natural resources and industrial conditions. 1896. (U. S. Cons. Rpts. v. 51, pp. 410–422.)

With tables of rates of wages, and retail prices of provisions.

Paraguay.

Preise ŭ. Löhne in Paraguay. [1886?] (Zeitschr. Preuss. Stat. 29. Jahrg. 1889. St. K. xxvi.)

Philippine Islands.

Prices of commodities and rates of wages in Manila. (Bull. Dept. of Labor. v. 6, no. 32, pp. 29–42. *Washington*, 1901.)

Siam.

King (Hamilton). Wages and prices in Siam, (Consular Reports. v. 65, pp. 357–359. *Washington*, 1901.)

Spain.

Burke (D. N.) Labor and food prices in Malaga. 1895. (U. S. Cons. Rpts. v. 48, pp. 554–564. *Washington*, 1895. 8°.)

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Living Expenses, cont'd.

Switzerland.

Uebersicht der zu einer Schweiz-Preis- ŭ. Löhnstatistik verfügbaren Materialien. [Various dates, from 1858 to 1888.] (Zeitschr. Schweiz. Stat. 26. Jahrg. 1890, pp. 170–195.)

Chatelanat (A.) Die Lebensvertheuerung ŭ. die Staatsdienerbesoldungen. 4 pts. (Zeitschr. Schweiz. Stat. 9. (1873), 11. (1875); 12. (1876).

—— Parallele zwischen: 1, der Lebensmittelvertheuerung ŭ. der Lebensvertheuerung im Ganzen; 2, der Arbeitslohnerhöhung. (Zeitschr. Schweiz. Stat. 14. Jahrg. 1878. pp. 166–169.)

Statistik (Zur) der Preise ŭ. Löhne im Kanton Bern. Dez. 1887–Dez. 1888. (Zeitschr. Schweiz. Stat. 25. Jahrg. 1889. pp. 523–557.)

United States.

Savary (Robert). Les salaires et les prix en France et aux États-Unis au cours du dernier demi-siècle. (Annales des sci. polit. v. 16, pp. 487–497. *Paris*, 1901.)

Weeks (Jos. D.) Report on the statistics of wages in manufacturing industries; with supplementary reports of the average retail prices of necessaries of life, etc. *Washington*, 1886. 571, 117 pp. 4°. (U. S. 10. Census. v. 20.)

Wright (Carroll D.) Cheaper living and the rise of wages. (Forum. v 16, pp. 221–228. *New York*, 1893. 8°.)

Wholesale prices and the cost of living. (The Commercial and Financial Chronicle. v. 57, pp. 1065–1067; v. 58, pp. 159–161. *New York*, 1893–94. F°.)

—— *Connecticut.*

Regulation of prices and wages [in Connecticut, in the 17th century]. (Conn. Labor Stats. Bur. 3. ann. rpt., 1887, pp. 71–94.)

Comparative wages and cost of necessaries of life. 1860 and 1887. (Conn. Labor Stats. Bur. 4. ann. rpt., 1888, pp. 87–95.)

Receipts and expenses of wage earners. (Conn. Labor Stats. Bur. 4. ann. rpt., 1888, pp. 97–135.)

—— *Illinois.*

Statistics of wages, rents, and the cost of living. (Ill. Labor Stats. Bur. 2. bienn. rpt., 1882, pp. 287–365.)

Work, wages, and profits in the manufacturing industries of Illinois. (Ill. Labor Stats. Bur. 3. bienn. rpt., 1884, pp. 1–52.)

Earnings and expenses, and condition of families. (Ill. Labor Stats. Bur. 3. bienn. rpt., 1884, pp. 163–302, 357–414.)
With tables of cost of living.

—— *Iowa.*

Cost of living. (Iowa. Labor Stats., Bur. of. 1. bienn. rpt., 1884/85, pp. 287–295.)
With tables of prices of food, etc.

Tables of wages, cost of living, etc. (Iowa. Labor Stats., Bur. of. 1. bienn. rpt., 1884/85, pp. 296–346.)
Includes comparative table of wages in Europe and U. S.

Wages, cost of living, etc., of wage-workers. (Iowa. Labor Stats. Bur. 3. bienn. rpt., 1888/89, pp. 5–200.)

—— Same. (2. rpt., 1886/87, pp. 5–231.)

Wage-earners' statistics. (Iowa. Labor Stats. Bur. 9. bienn. rpt., 1899/1900, pp. 113–137.)

—— *Kansas.*

Wage tables and cost of living. (Kansas. Labor and Indus. Stats., Bur. of. 1. ann. rpt., 1886, pp. 143–232.)
With tables of wages and food, 1875, '80, '82, '84 and '85.

Wage-workers—their earnings and expenses. (Kansas. Labor and Indus. Stats., Bur. of. 2. ann. rpt., 1887, pp. 219–373.)
With tables of wages, and cost of living.

Wage-workers—their earnings and expenses. (Kansas. Labor and Indus. Stats., Bur. of. 3. ann. rpt., 1888, pp. 75–209.)

Wage-workers. (Kansas. Labor and Indus. Stats., Bur. of. 4. ann. rpt., 1889, pp. 169–265.)

Wage-earners. (Kansas. Labor and Indus. Stats., Bur. of. 13. ann. rpt., 1897, pp. 219–370.)
With tables of wages and cost of living.

Wage-earners' statistics. (Kansas. Labor and Indus. Statis. Bur. 14. ann. rpt., 1898, pp. 96–165.)
With tables of wages and cost of living.

—— (Kansas. Labor and Indus. Bur. 15. ann. rpt., 1899, pp. 1–359.)
With tables of wages and cost of living.

—— *Maine.*

Under the head, "Workingmen's Returns," the Maine Bureau of Labor prints a table in its annual report showing salaries, expenses and savings of workingmen.

—— *Massachusetts.*

Wright (C. D.) History of wages and prices in Massachusetts: 1752–1883. Including comparative wages and prices in Massachusetts and Great Britain: 1860–83. [Being pts. III. and IV. of the 16. annual report of the Mass. Bureau of statistics of labor.] *Boston: Wright & Potter Print. Co.*, 1885. 313, 57 pp. 8°.

Wages, prices, and profits, 1860, '72, '78, and '81. (Mass. Labor Stats. Bur. 13. ann. rpt., 1882, pp. 417–459.)

Comparative prices and cost of living: 1860–1883. Massachusetts and Great Britain. (Mass. Labor Stats. Bur. 15. ann. rpt., 1884, pp. 435–469.)

Wright (C. D.) Comparative wages and prices, 1860–1883. Massachusetts and Great Britain. *Boston*, 1885. 57 pp.

Comparative wages and prices. 1860–1897. (Mass. Labor Stats. Bur. 28. ann. rpt., 1898, pp. 1–41.)

—— Same. Separate.

Comparative wages for 1861 and 1869. (Mass. Labor Stats. Bur. 1. ann. rpt., 1870, p. 410.)

Cost of living. (Mass. Labor Stats. Bur. Ann. rpt., 1871, pp. 423–440.)

Cost of living, wages, etc. (Mass. Labor Stats. Bur. 3. ann. rpt., 1872, pp. 251–257.)

Purchasing power of wages. (Mass. Labor Stats. Bur. 3. ann. rpt., 1872, pp. 468–538.)
With tables, giving prices of necessary articles, 1780–1864, and of wages, 1871 (?).

Daily wages and actual earnings. (Mass. Labor Stats. Bur. 4. ann. rpt., 1873, pp. 71–108.)

Cost of living. (Mass. Labor Stats. Bur. 4. ann. rpt., 1873, pp. 109–128.)

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Living Expenses, United States, cont'd.

Comparative rates of wages and hours of labor in Massachusetts and foreign countries. (Mass. Labor Stats. Bur. 5. ann. rpt., 1874, pp. 49–108.)

Prices of provisions, etc., in Massachusetts and Europe. Purchase-power of money. (Mass. Labor Stats. Bur. 5. ann. rpt., 1874, pp. 161–200.)

Comparative table showing cost of groceries, etc., in 1861 and 1873. (Mass. Labor Stats. Bur. 5. ann. rpt., 1874, pp. 258–259.)

Cost of living. (Mass. Labor Stats. Bur. 5. ann. rpt., 1874, pp. 260–261.)

Table showing cost in Mass., and 40 foreign cities.

Wages, prices, and profits. (13. ann. rpt. Mass. Bureau Stats. of Labor, 1882. pp. 417–459.)

Time and wages. (Mass. Labor Stats. Bur. 14. ann. rpt., 1883, pp. 179–241.)

Comparative wages. 1883. Massachusetts and Great Britain. (Mass. Labor Stats. Bur. 15. ann. rpt., 1884, pp. 135–315.)

Wright (Carroll D.) Comparative wages, prices, and cost of living. *Boston: Wright & Potter Prtg. Co.*, 1889. viii, 255 pp. 8°. (Mass. Labor Stats. Bur.)

From the 16. Annual Report, 1885.

—— *Michigan.*

Wages and labor in Detroit in 1750. (Michigan. Lab. and Indus. Stats. Bur. 10. ann. rpt., 1893, pp. 1183–1186.)

Cost of living, from statistics recorded in home account books, for one year. (Michigan. Lab. and Indus. Stats. Bur. 10. ann. rpt., 1893, pp. 1023–1126.)

—— *Missouri.*

Table showing cost of living of workingmen. (Missouri. Labor Stats. Bur. 12. ann. rpt., 1890, pp. 395–413.)

—— *Montana.*

Analysis of wage-earners' individual reports. (Montana. Agric., Labor, and Indus., Bur. of. 2. rpt., pp. 32–65.)

With tables of average wages and cost of living.

Cost of living. (Montana. Agric., Lab., and Indus., Bur. of. 7. rpt., 1900, pp. 361–372.)

With tables of average prices for wheat, rye, etc., and food, etc.

—— *New Hampshire.*

Retail and wholesale prices of food and fuel, in June and Dec., 1895. (New Hampshire. Labor Bur. 1. bienn. rpt., 1896, pp. 187–317.)

—— *New Jersey.*

Earnings (The) of wage-workers. (N. J. Labor and Industries Stats. Bur. 5. ann. rpt., 1882, pp. 1–75.)

With tables of wages received in New Jersey, farm laborers in U. S., comparative wages in U. S. and other countries, and cost of living in various localities, 1881–82.

Cost (The) of living [in New Jersey]. (N. J. Labor and Indus. Stats. Bur. 8. ann. rpt., 1885, pp. 141–183.)

Earnings, cost of living, and prices. (N. J. Labor and Indus. Stats. Bur. 9. ann. rpt., 1886, pp. 1–177.)

Cost of living in New Jersey. (N. J. Labor and Indus. Stats. Bur. 22., 23. ann. rpts., 1899, 1900, pp. 207–219, 165–177.)

With tables of retail prices of supplies, June, 1899–1900.

—— *New York.*

Rates of wages [for 1890 and 1891]. (New York. Labor Stats. Bur. 9. ann. rpt., 1891, pt. 1, pp. 19–579.)

Tables showing increases and decreases of wages and amount of production, 1891 over 1890. (New York. Labor Stats. Bur. 9. ann. rpt., 1891, pt. 1, pp. 9–13.)

Cost of living. (New York. Labor Stats. Bur. 10. ann. rpt., 1892, pt. 1, pp. 249–335.)

With tables of wholesale prices of provisions in New York market, Jan., 1880–92; wheat flour, 1870–90; annual average export prices, 1866–92; prices of cotton, wool, etc.

Agricultural conditions in New York state. (New York. Labor Stats. Bur. 15. ann. rpt., 1897, pp. 603–709.)

With tables of wages, and prices of wheat, barley, etc., in 1894 to 1896.

—— *Wisconsin.*

Purchasing (The) power of a day's wages. (Wisconsin. Labor and Indus. Stats. Bur. 4. bienn. rpt., 1888/89, pp. 167–176.)

With table showing purchasing power, in quantities of wheaten bread and other food, of wages for ten hours' labor of skilled blacksmiths in some European countries and in Wisconsin.

LUMBER.

Listoe (S.) Prices of American lumber at Rotterdam, 1899. (U. S. Cons. Rpts. v. 60, pp. 96–97. *Washington*, 1899. 8°.)

—— American lumber in Rotterdam, 1900. (U. S. Cons. Rpts. v. 63, pp. 173–174. *Washington*, 1900. 8°.)

Gives prices.

MATCHES.

Pagés (J. G.) Matches in Mexico [1899?] (U. S. Cons. Rpts. v. 61, pp. 565–566. *Washington*, 1899. 8°.)

With table of prices.

MEAT.

Belgium.

Preis des Fleisches im Belgien, 1859 und 1861, (Zeitschrift des königl. Preussischen statistichen Bureaus. 8. Jahrg. 1868, p. 178. *Berlin*, 1868. F°.)

France.

Mangin (Arthur). La question du prix de la viande. (L'Économiste français. 8. année, vol. 2, 1880, pp. 223–26. *Paris*, 1880. F°.)

Prix (La) de la viande à Paris et en province. (L'Économiste français. 12. année, vol. 1, pp. 612–613. *Paris*, 1884. F°.)

Trail (C. B.) American pork in France, 1891. (U. S. Cons. Rpts. v. 38, pp. 265–267. *Washington*, 1891. 8°.)

With table showing retail prices of butchers' meat in Marseilles, 1890.

Germany.

Monaghan (J. C.) Meat prices in Germany, 1889. (U. S. Cons. Rpts. v. 31, pp. 282–283. *Washington*, 1889. 8°.)

With table of prices for Karlsruhe.

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Meat, Germany, cont'd.

Raffalovich (A.) Le renchérissement de la viande en Allemagne. (L'Économiste français. 18. année, vol. 2, pp. 330–31. *Paris*, 1890. F°.)

Karel (J.) The Russian hog trade with Germany, 1896. (U. S. Cons. Rpts. v. 53, pp. 351–352. *Washington*, 1896. 8°.)

With table of prices, July 1 and Nov. 12, 1896.

Martin (R.) Fleischconsum und Fleischpreise, (Annalen des Deutschen Reichs für Gesetzgebung, Verwaltung und Statistik. 1896, pp. 574–76. *München*, 1896. 8°.)

Vieh- und Fleischpreise in 10 deutschen Städten für die 5 Jahre 1896 bis 1900. (Vierteljahrshefte zur Statist. d. deut. Reichs. Jahrg. 10 (1901), Heft. 3, p. 33. *Berlin*, 1901.)

—— *Berlin.*

Hirschberg (E.) Die Fleischpreise in Berlin. (Jahrbücher für Nationökonomie und Statistik. 2. F., 20. Bd., pp. 289–95. *Jena*, 1890. 8°.)

Halle (Lery von). Die Berliner Fleischpreise im letzten Jahrzehnt und die Reform des Vieh- und Fleischhandels. (Jahrbuch für Gesetzgebung, Verwaltung und Volkswirtschaft. v. 16, pp. 689–730. *Leipzig*, 1892. 8°.)

—— *Breslau.*

Gothein (G.) Vieh- und Fleisch-Preise in Breslau. (Nation. 16. Jahrg., no. 11. *Berlin*, 1898. 8°.)

—— *Prussia.*

Bewegung (Die) der Fleischpreise in Preussen, 1874–1879. (Zeitschrift des Königl. Preussischen Statistischen Bureaus. 19. Jahrg. 1879, St. K. xx. *Berlin*, 1879. F°.)

Great Britain.

See also the Annual Agricultural Returns of Great Britain.

[**Report** from the select committee, Great Britain, on the high price of provisions, and on forestalling cattle Practices of jobbers. Comparative prices of meat.] May, 1766. (H. of C. Journals. v. 30, pp. 787–788.)

[**Report** from the select committee, Great Britain, on the petition of the butchers respecting the practice of jobbing and forestalling cattle. Effects of jobbing on the price of cattle. Transactions between the grazier, jobber and salesman.] April, 1796. (H. of C. Journals. v. 51, pp. 636–640.)

Provisions. An account of the contract prices of meat per pound, and of bread per four-pound loaf, in England, Scotland and Wales, 1819–1829:—as far as relates to the Commissariat Department. [*London*, 1830.] 36 pp. F°. (Great Britain. Parl. Papers. Sess. 1830 (192), v. 18.)

Report from the select committee [Great Britain] on preserved meats (navy); together with the minutes of evidence, appendix and index. [Evidence in relation to the prices of preserved meats. Average prices of beef and pork in Newgate and Leadenhall Markets, 1845–1851. Contract prices for mutton, beef and pork for Greenwich Hospital, 1845–1852.] [*London*, 1852.] xxii, 495 pp. F°. (Great Britain. Parl. Papers. Sess. 1852 (303), v. 15.)

Preserved meats (navy) [Great Britain]. Returns of . . . contracts . . . and the contract prices of beef and pork for the years 1848–1851. [*London*, 1852.] 6 pp. F°. (Great Britain. Parl. Papers. Sess. 1852 (59), v. 30.)

Return of the number of live cattle, etc., in each of the divisions of the United Kingdom, from 1866–77. *London*, 1878. 10 pp. F°. (Parlt. Papers. 1878, v. 68.)

Tables of average prices of meat imported, 1854–77; and of butchers' meat at metropolitan market, 1858–77.

Returns showing the quantity and value of fresh and preserved meat imported into the United Kingdom in each month of 1876, and of first six months of 1877. (Great Britain. Parlt. Papers. 1877, v. 76.)

Tables of average prices in New York, Philadelphia, Montreal, Copenhagen, Hamburg and Amsterdam.

Switzerland.

Zuppinger (C.) Der Konsum und die Preise des Fleisches im Kanton St. Gallen, 1896. (Zeitschrift für Schweizerische Statistik. 34. Jahrg. 1898, pp. 335–401. *Bern*, 1898. F°.)

Tables also compare various dates: 1885, 1890, 1895, etc.

United States.

Monthly average prices of beef in the New York and Chicago market, 1884–1889. (U. S. Statistical Abstract. *Washington*, 1889.)

Continued each year thereafter.

METAL AND MINERAL PRODUCTS.

See also COAL above.

Australasia.

Wallace (G. H.) Tin and tin ores in Austraasia, 1893. (U. S. Cons. Rpts. v. 43, pp. 340–349. *Washington*, 1893. 8°.)

With table of annual average price of pig tin in Melbourne from 1876 to 1892.

France.

Leroy-Beaulieu (Paul). Les fluctuations du prix du charbon, du fer, du cuivre, de l'étain, du plomb et du zinc de 1870 à 1889. (L'Économiste français. 19. année, vol. 1, pp. 1–4. *Paris*, 1891. F°.)

Payen (Edouard). La production et le prix des métaux depuis cent ans et particulièrement dans les dernières années. (L'Économiste français. 25. année, vol. 1, pp. 809–11, 853–55. *Paris*, 1897. F°.)

—— La production et le prix des metaux dans les dernières années. (L'Économiste français. 27. année, vol. 2, pp. 163–65, 202–204. *Paris*, 1899. F°.)

Michel (Georges). L'industrie metállurgique en 1898, la production et les prix. (L'Économiste français. 27. année, vol. 2. pp. 679–81. *Paris*, 1899. F°.)

Payen (Edouard). La production et le prix des métaux durant les dix dernières années. (L'Écon. français. année 28, v. 2, pp. 429–431; 465–467. *Paris*, 1900. F°.)

Germany.

Edwards (W. H.) Iron and coal trade of Germany, 1891. (U. S. Cons. Rpts. v. 37, pp. 215–223. *Washington*, 1891. 8°.)

With tables of iron prices in Feb., Apr. and Sept., 1890.

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Metals, etc., Germany, cont'd.

Wamer (W. D.) Iron and steel industry of Germany, 1886. (U. S. Cons. Rpts. v. 21, pp. 70–74. *Washington*, 1886 8°.)
With table of average prices of iron for 1878–85.

Great Britain.

Vivian Younger and Bond. Vivian Younger and Bond's metal price current. Prices of the undermentioned metals in London on the 1st day of each month during the last twenty years, 1866–1884. *n. t. p.* [*London: The Company*, 1884?] Broadside. 31 x 44.

Reheisen-Preise in England in den einzelnen Monaten der 12 Jahre 1885 bis 1896. (Vierteljahrshefte zur Statistik des Deutschen Reichs. Jahrg. 1898, Heft 4, p. 112. *Berlin*, 1898. F°.)

Diagrams of three months' fluctuations in prices of metals. [Specially compiled from official reports of London metal and Scotch pig-iron warrant markets.] (Engineering. v. 50, Nov. 1890–date. *London*, 1890–date.)
Published every month.

Russia.

Karel (J.) Prices of iron in Russia, 1896. (U. S. Cons. Rpts. v. 53, pp. 346–347. *Washington*, 1896. 8°.)

United States.

Fluctuations in the prices of metals since 1890. (With supplement.) (Iron Age. v. 69, pp. 14–15. *New York*, 1902.)

Ingalls (Walter Renton). A consideration of the copper situation from a statistical standpoint. (Engineering and Mining Jour. v. 73, pp. 273–275. *New York*, 1902.)

PAPER MANUFACTURE.

Table showing the wholesale prices of articles connected with the manufacture of paper, before and during the war, in New York and Philadelphia. With bills and certificates showing that these prices were actually paid. *Philadelphia: Collins*, 1865. 8 pp. 8°.

PEANUTS.

Sommer (H. J.), *jr.* Peanuts and peanut oil, 1894. (U. S. Cons. Rpts. v. 45, pp. 378–389. *Washington*, 1894. 8°.)
With table of prices at Marseilles during 1893.

PETROLEUM.

Bissenger (E.) Russian petroleum in Beirut, 1886. (U. S. Cons. Rpts. v. 19, pp. 161–167. *Washington*, 1886. 8°.)
With tables of value of American petroleum for 1880 to 1885; average price of the different kinds of American petroleum, Feb. 15, 1886. Prices and production of Russian oil are given in text.

Chambers (J. C.) Russian petroleum trade, 1890. (U. S. Cons. Rpts. v. 33, pp. 80–107. *Washington*, 1890. 8°.)
With cost of refined oil at Batoum.

POTATOES.

Kartoffelpreise in den einzelnen Monaten des Jahres 1881, zu Breslau, Hannover ŭ. Mülhausen. (Zeitschr. Preuss. Stat. 23. Jahrg., p. 125. *Berlin*, 1883. F°.)

POTTERY.

Warner (W. C.) The pottery industry of Tunstall, 1894. (U. S. Cons. Rpts. v. 44, pp. 635–655. *Washington*, 1894. 8°.)
With tables, potters' working price list, and prices of food stuffs.

SALT.

Preis, Consum ŭ. Reinertrag des Salzes in den Kantonen, 1869. (Zeitschrift für Schweizerische Statistik. 6. Jahrg. 1870, pp. 125–127. *Bern*, 1870. F.)

SATIN.

Hansmann (C. A.) Manufacture of piece-dyed satins at Lyons, 1890. (U. S. Cons. Rpts. v. 35, pp. 460–470. *Washington*, 1890. 8°.)
With tables of invoice prices, and experts' estimates of cost.

SILK.

Peixotto (Benj. F.) Comparative table of the prices of silk (in francs) on the 31st of December for fifteen years, (from 1867 to 1881) at Lyons, France. (U. S. Cons. Rpt. no. 16, p. 278. *Washington*, 1881. 8°.)

—— Prices of silk at Lyons, 1885. (U. S. Cons. Rpts. v. 17, pp. 33–34. *Washington*, 1885. 8°.)
Contains table of prices of silk during 18 years, from 1867 to 1884.

Bourn (A. O.) Silk crop of Italy for 1889, 1890. (U. S. Cons. Rpts. v. 33, pp. 269–274. *Washington*, 1890. 8°.)
With tables of average prices of cocoons, from June 2 to July 20, 1889, and totals for years 1886 to 1889.

SUGAR.

Lloyd (John C.) Fluctuations in gold, fair to good refining and white "A" sugar from 1861 to 1868, also stock of raw sugars at the port of New York on the first day of each month. [*New York*, 1869.] Broadside. 29¼ x 22¼ in.

Hirning (W). Beet-root sugar in Bohemia, 1886. (U. S. Cons. Rpts. v. 19, pp. 34–38. *Washington*, 1886. 8°.)
With table of average price of metrical centner of sugar in Austrian currency and London rate of exchange, from 1876 to 1885.

Diederich (H. W.) Germany's beet-sugar industry from 1877 to 1899. (U. S. Cons. Rpts. v. 60, pp. 471–474. *Washington*, 1899. 8°.)
With tables of prices for beets and sugar.

Opp (F.) Beet-sugar production in Germany, 1895. (U. S. Cons. Rpts. v. 51, pp. 192–195. *Washington*, 1895. 8°.)
With table of average price for sugar, 1886/87–1893/94.

United States.—*Foreign Commerce Bureau.* Production of starch-sugar from rice, 1896. (Cons. Rpts. v. 52, pp. 505–559. *Washington*, 1896. 8°.)
With tables of prices of clean rice in Trieste, raw and polished in Hamburg, 1885–92; Rotterdam, 1886–96; Glasgow, 1882–96; London, 1886–95, and Wuhu, 1886–95.

SULPHUR.

Brühl (L. H.) The sulphur industry of Sicily, 1895. (U. S. Cons. Rpts. v. 50, pp. 325–328. *Washington*, 1895. 8°.)
With table of average prices, 1870–95.

TEA.

Fee (W. T.) Tea in India, 1900. (U. S. Cons. Rpts. v. 64, pp. 490–494. *Washington*, 1900. 8°.)
With table of prices for 1888–99, for Broken Pekoe, Pekoe, and Pekoe Souchong.

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TEXTILES.

See also Cotton, Silk, Wool, Satin, etc.

Lawrence (H. D.) Woolen and cotton mills in Canada, April, 1882. (U. S. Cons. Rpt. no. 23, pp. 395–398. *Washington*, 1882. 8°.)

Tables of average rate of wages, and of food staples.

Schoenle (W.) Cotton and woolen industries of Germany, May, 1882. (U. S. Cons. Rpt. no. 23, pp. 175–186. *Washington*, 1882. 8°.)

Tables of average rate of wages, and average food prices in Barmen during 1881 and 1882.

Eckstein (D.) Cotton and woolen industries of Holland, July, 1882. (U. S. Cons. Rpt. no. 23, pp. 318–323. *Washington*, 1882. 8°.)

Table of prices of food staples.

United States.—*Foreign Commerce Bureau.* Sheep and wool in Asia [1890?]. (Cons. Rpts. v. 35, pp. 566–599. *Washington*, 1890. 8°.)

With table of prices of wool in England, 1818–1887.

Michel (Georges). Les industries textiles en 1891 et la baisse des matières premières. (L'Économiste français. 21. année, vol. 1, pp. 5–6. *Paris*, 1893. F°.)

Payen (Edouard). La laine, la hausse récente de ses prix. (L'Économiste français. 27. année, vol. 2, pp. 342–44. *Paris*, 1899. F°.)

McFarland (S. C.) Wools, yarns and hosiery in the English market, 1900. (U. S. Cons. Rpts. v. 62, pp. 456–461. *Washington*, 1900. 8°.)

With tables of prices: cotton at Liverpool, and wools at London, in Jan. and Dec., 1899, and hosiery yarns for same dates.

TOBACCO.

Anpflanzung, Ertrag und Preis des Tabaks in den Staaten des Zollvereins pro 1861 bis 1866. (Jahrbücher für Nationalökonomie und Statistik. v. 9, p. 363. *Jena*, 1867. 8°.)

Pratt (E. S.) Sumatra tobacco, 1895. (U. S. Cons. Rpts. v. 50, pp. 294–297. *Washington*, 1895. 8°.)

With table of average price, 1870–93.

Downes (E.) Tobacco in the Netherlands, 1896. (U. S. Cons. Rpts. v. 53, pp. 542–547. *Washington*, 1896. 8°.)

With tables of prices of Sumatra and Borneo crops of 1895, and Sumatra crops, 1864–95.

WINES.

Weinpreise im Kanton Zürich in den Jahren 1470–1870, nach Waser ü. Müller. (Zeitschrift für Schweizerische Statistik. 14. Jahrg., 1878, pp. 174–176. *Bern*, 1878. F°.)

O'Hara (T.) Duty on wines and liquors in Nicaragua, 1896. (U. S. Cons. Rpts. v. 53, pp. 447–452. *Washington*, 1896. 8°.)

With table of prices at San Juan del Norte.

United States.—*Foreign Commerce Bureau.* Wine in South America, 1898. (Cons. Rpts. v. 56, pp. 459–468. *Washington*, 1896. 8°.)

With tables of prices in Para, Valparaiso, and Iquique.

WOOL.

Prices of alpaca and mohair, from 1856 [to 1893]. (Ford (W. C.), Wool and manufactures of wool. *Washington*, 1894. p. 577. 8°.)

Comparative tables of import prices of wool per pound in the United Kingdom and the United States. (Ford (W. C.), Wool and manufactures of wool. *Washington*, 1894. p. 24. 8°.)

Meeker (C.) Revival of the mohair trade, 1895. (U. S. Cons. Rpts. v. 49. pp. 366–370. *Washington*, 1895. 8°.)

With table of prices for 1872–95.

Schoenhof (J.) Production and prices of wool, 1886. (U. S. Cons. Rpts. v. 19, pp. 133–135. *Washington*, 1886. 8°.)

With table of prices of leading descriptions of wool of Australian, Cape, River Plate, and English growth, as they stood Dec. 31, 1860, to 1885.

Argentine Republic.

Buchanan (W. I.) Wool in the Argentine Republic, 1897. (U. S. Cons. Rpts. v. 55, pp. 411–419. *Washington*, 1897. 8°.)

With tables of prices of fine wool, 1866–97, of "cross Lincoln" wool, 1890–97, and of "Criollo," or Cordoba wool, 1887–97.

Australasia.

Spencer (O.M.) Woolen industries of Victoria, Australia, July, 1882. (U. S. Cons. Rpt. no. 24, pp. 438–450. *Washington*, 1882. 8°.)

Tables of retail prices of food staples.

Griffin (G. W.) The Australasian wool season of 1889–90. 1890. (U.S. Cons. Rpts. v. 33, pp. 242–254. *Washington*, 1890. 8°.)

With table showing price each year, 1872 to 1889.

Belgium.

Price of imported and exported wools in the Belgian markets, 1885–1891. (Ford (W. C.), Wool and manufactures of wool. *Washington*, 1894. p. 511. 8°.)

France.

Prices of wool in France, 1861–1891. (Ford (W. C.), Wool and manufactures of wool. *Washington*, 1894. p. 516. 8°.)

Frisbie (John L.) Woolen industry of Rheims, April, 1882. (U. S. Cons. Rpt. no. 23, pp. 147–160. *Washington*, 1882. 8°.)

Tables of wages, and average food prices.

Fluctuation of prices of River Plate and Australian combed wools in the French market, 1891–1892. (Ford (W. C.), Wool and manufactures of wool. *Washington*, 1894. p. 515. 8°.)

Germany.

[**Preise** der wolle,] 1823. (Württemb. Jahrb., 1824.)

Continued each year thereafter until 1872.

Great Britain.

Prices of Lincoln wool, half hog, from 1812 [to 1880]. (Ford (W. C.), Wool and manufactures of wool. *Washington*, 1894. p. 577. 8°.)

[**Prices** of Southdown and Kent long wool, 1818–1845.] (In: Revenue, etc. Return relating to vessels and tonnage . . . [1846]. p. 7. Great Britain. Parl. Papers. Sess. 1846 (109), v. 44.)

Great Britain.—*Seeds and wool committee.* First, Second [and] Third report from the Select Committee [Gt. Britain] on Seeds and Wool, etc. . . . with the minutes of evidence . . . [Prices of English, Scotch and Irish wools.] [*London*, 1816.] 102 pp. F°. (Parl. Papers. Sess. 1816 (272), v. 6.)

1. rpt. only contains information on wool.

—— *Wool trade committee.* Report from the select committee of the House of Lords [Gt. Britain], appointed to take into consideration the state

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Wool, Great Britain, cont'd.

of the British wool trade . . . with the minutes of evidence . . . an appendix and index . . . [Depression in the prices of wool and its causes. Prices of sheep, wool and cloth, 1700–1828.] [*London*, 1828.] viii, 401 pp. F°. (Parl. Papers. Sess. 1828 (515), v. 8.)

—— *Hand-loom weavers' committee.* Report from the Select Committee [Gt. Britain] on Hand-Loom Weavers' Petitions; with the minutes of evidence, and index. [Distress occasioned by the corn laws. Causes of the fall in prices. Low prices reduce wages. Prices of goods. Rates of wages.] [*London*, 1834.] iv, 635, ii, 75 pp. F°. (Parl. Papers. Sess. 1834 (556), v. 10.)

—— Report from the Select Committee [Gt. Britain] on Hand-Loom Weavers' Petitions; with the minutes of evidence, and index. [Reduction of prices precedes reduction of wages. Plans for regulating wages and prices. Rate of wages of hand-loom weavers, of cambric weavers. Corn laws.] [*London*, 1835.] xxii, 320 pp. (Parl. Papers. Sess. 1835 (341), v. 13.)

—— —— Analysis of the evidence taken before the Select Committee [Gt. Britain] on Hand-Loom Weavers' Petitions; 1834–1835. [Reduction of wages. A minimum rate of wages to be established. Prices of weaving, June, 1808. Corn laws.] [*London*, 1835.] iii, 92 pp. F°. (Parl. Papers. Sess. 1835 (492), v. 13.)

Prices of wools in London market, Jan., 1890–Dec., 1892; and prices of raw wools in London market on Dec. 31, 1886–95. (U. S. Monthly Summary, etc. Ser. 1895/6, p. 910. *Washington*, 1896. 4°.)

Meeker (C.) The British wool trade, 1894. (U. S. Cons. Rpts. v. 46, pp. 209–211. *Washington*, 1894. 8°.)

With comparative table of prices on Mch. 27, 1893, and Aug. 3, 1894, and prices for "Down" fleeces, 1784–1894.

Sawter (G.) Wool prices in London, 1899. (U. S. Cons. Rpts. v. 62, pp. 86–87. *Washington*, 1899. 8°.)

With table of prices in Dec., 1898, and Sept., 1899.

Poland.

Rawics (J.) Trade and industries of Poland, 1891. (U. S. Cons. Rpts. v. 38, pp. 343–363. *Washington*, 1891. 8°.)

With table of prices for sheep's wool during the fair at Warsaw, June, 1888 and 1889.

United States.

Prices of wool in the markets of New York (1824–87) and Philadelphia (1865–87). (Wool and manufactures of wool. U. S. Treas. Dpt. Spec. Rpt. *Washington*, 1888. pp. 109–118. 8°.)

—— of wool in the New York market, 1824–1890. (U. S. Statistical Abstract. *Washington*, 1889. 4°.)

Continued each year thereafter.

Price in the foreign markets of imported wools entered for consumption in the United States from July 1, 1866, to June 30, 1893. (Ford (W. C.), Wool and manufactures of wool. *Washington*, 1894. p. 51. 8°.)

Statement showing the price, or cost, in the foreign markets of imported wools entered for consumption in the United States, 1867–1887. (Wool and manufacturers of wool. U. S. Treas. Dpt. Spec. Rpt. *Washington*, 1888. p. 231. 8°.)

—— showing prices of different kinds of wool at Boston for each month from January, 1882, to December, 1886, inclusive. (Wool and manufactures of wool. U. S. Treas. Dpt. Spec. Rpt. *Washington*, 1888. pp. 228–230. 8°.)

Table of prices of Montana wool in Boston, 1889–93. (Montana. Agric., Lab. and Indus., Bur. of. 1. ann. rpt., 1893. p. 279.)

Philadelphia wool quotations, 1890–96. (U. S. Monthly Summary, etc. Ser. 1895/6, pp. 901–906. *Washington*, 1896. 4°.)

Prices of wool in the Philadelphia market, 1892–96. [*Washington*, 1896.] 7 pp. 4°. (U. S. Statistics Bureau.)

—— paid at points stated for wool during 1896. (Montana. Agric., Lab. and Indus., Bur. of. 4. rpt., 1896, pp. 86–87.)

Sheep and wool. (Montana. Agric., Lab. and Indus., Bur. of. 5. rpt., 1897, pp. 112–123.)

With tables of prices of Montana wools.

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PRINCIPAL ACCESSIONS IN MARCH.

General Works.

Brockhaus' Konversations-Lexikon. Bd. 6. *Berlin*, 1902. 14. ed. 4°.

Salmonsens store illustrerede Konversationsleksikon. Bd. 12. *Kjöbenhavn*, 1901. 4°.

Biography—Genealogy.

General.

Nash (E. T.) Fifty Puritan ancestors. *New Haven*, 1902. 4°.

National (The) cyclopædia of American biography. v. 11. *New York*, 1901. 4°.

Alphabetical, by subjects.

Bostwick (H. A.) Genealogy of the Bostwick family in America. *New York*, 1901. 8°.

Booth (B.) On the banks of the river; being a brief history of the last days of Mrs. General Booth. *London*, 1900. 2. ed. 12°.
Gift of the Salvation Army.

Brown (W. G.) Stephen Arnold Douglas. *Boston*, 1902. 16°.

Jenks (E.) Edward Plantagenet (Edward I.). *New York*, 1902. 12°.
(Heroes of the nations.)

Waliszewski (K.) La dernière des Romanov, Élisabeth 1re de Russie. *Paris*, 1002. 8°.

Goethe (J. W. von). Goethe-Briefe. Bd. 1. *Berlin*, 1902. 8°.

Grant (*Mrs.* A. McV.) Memoirs of an American lady. With scenes in America previous to the Revolution. *New York*, 1901. 2 v. 8°.
Gift of Mrs. A. P. Pruyn.

Clodd (E.) Thomas Henry Huxley. *Edinburgh*, 1902. 12°.
(Modern English writers.)

Mead (S. P.) History and genealogy of the Mead family. *New York*, 1901. 4°.

Lavy (A.) L'œuvre de Millerand. Un ministre socialiste (Juin, 1899–Janvier, 1902). *Paris*, 1902. 12°.

Watson (T. E.) Napoleon. *New York*, 1902. 8°.

Reiset (M. A. de), *vicomte*. Souvenirs. *Paris*, 1899–1900. 2 v. 8°.

Hensman (H.) Cecil Rhodes. *Edinburgh*, 1901. 8°.

Lee-Warner (E.) The life of John Warner, bishop of Rochester, 1637–1666. *London*, 1901. sq. 4°.

Gower (*Lord* R. S.) Sir David Wilkie. *London*, 1902. 8°.
(Great masters in painting and sculpture.)

North and South America: Travel, Description, and History.

Bollo (L. C.) Geografía de la República Oriental del Uruguay. *Montevideo*, 1901. 7. ed. 12°.

Burgess (J. W.) Reconstruction and the constitution, 1866–1876. *New York*, 1902. 12°.
(The American history series.)

Crissey (T. W.) History of Norfolk, Litchfield County, Connecticut. *Everett, Mass.*, 1900. 8°.

Fielde (A. M.) A political primer of New York city and state. *New York*, 1902. 16°.

Goodsell (D. A.) Nature and character at Granite Bay. *New York*, 1901. 8°.

Harris (C. W.) The sectional struggle. *Philadelphia*, 1902. 8°.

Lanier (L.) L'Amérique. *Paris*, 1901. 13. ed. 12°.

Sapper (K.) Mittelamerikanische Reisen und Studien aus den Jahren 1888 bis 1900. *Braunschweig*, 1902. 8°.

Seler (E.) Die alten Ansiedelungen von Chacula im Distrikte Nenton der Republik Guatemala. *Berlin*, 1901. f°.

Thompson (R. E.) The hand of God in American history. *New York* [cop. 1902]. 12°.

Europe: Description, History, etc.

Bang (H.) Det hvide Hus. *Köbenhavn*, 1901. 16°.

Bertha (A. de). La Hongrie moderne de 1849 à 1901. *Paris*, 1901. 8°.

Cheyney (E. P.) An introduction to the industrial and social history of England. *New York*, 1901. 8°.

Dodge (W. P.) From squire to prince: being a history of the house of Cirksena. *London*, 1901. 8°.
Gift of the author.

Evans (*Rev.* J.) A popular history of the ancient Britons. *London*, 1901. 8°.

Geschichte der œsterreichischen Land- und Forstwirtschaft und ihrer Industrien. Supplementband. *Wien*, 1901. 4°.

Glasson (E.) Le parlement de Paris. *Paris*, 1901. 2 v. 8°.

Hertslet (*Sir* E.) Recollections of the old Foreign Office. *London*, 1901. 8°.

Hodgson (F. C.) The early history of Venice, from the foundation to the conquest of Constantinople, A.D. 1204. *London*, 1901. 8°.

Issarte (A.) Des causes de la révolte des Camisards. *Montbéliard*, 1901. 8°.
(Université de Paris.—Faculté de Théologie Protestante.)

Kovalevsky (M.) Russian political institutions. *Chicago*, 1902. 8°.

Mörch (E.) Da Kristiania var smaaby. *Kristiania*, 1901. 12°.

Morfill (W. R.) A history of Russia. *New York*, 1902. 12°.

Müller (A.) Vore Slotte. *Köbenhavn*, 1901. 8°.

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Stadt (Der). Riga Verwaltung und Haushalt in den Jahren 1878–1900. *Riga*, 1901. 4°.

Thissen (O.) Beitraege zur Geschichte des Handwerks in Preussen. *Tübingen*, 1901. 8°.
(Beitraege zur Geschichte der Bevölkerung in Deutschland. Bd. 6.

Victoria (The) history of the counties of England. Surrey. v. 1. *London*, 1902. f°.

Wicks (F.) The British constitution and government. *London*, 1902. 6. ed. 12°.

Wissowa (G.) Religion und Kultus der Römer. *München*, 1902. 8°.
(Handbuch der klassischen Altertums-Wissenschaft.)

Africa, Asia, and the Pacific Islands: Travel, History, etc., etc.

Carey (W.) Adventures in Tibet. *New York*, 1901. 8°.

Hogarth (D. G.) The nearer East. *New York*, 1902. 8°.
(Appletons' world series.)

Hommel (F.) Der Gestirndienst der alten Araber. *München*, 1901. 8°.
Gift of J. H. Schiff.

Johns (*Rev.* C. H. W.) Assyrian deeds and documents. v. 3. *Cambridge*, 1901. 8°.

Kraemer (A.) Die Samoa-Inseln. v. 1. *Stuttgart*, 1902. f°.

Le Roux (H.) Ménélik et nous. *Paris* [1902?] 8°.

Meakin (B.) The Moors: a comprehensive description. *London*, 1902. 8°.

Rivoyre (D. de). Mascate. *Milano*, 1900. 8°.
(Biblioteca illustrata dei viaggi intorno al mondo, n. 61.)

Walker (J. W. G.) Ocean to Ocean. *Chicago*, 1902. 8°.

Music and Art.

Analecta hymnica medii ævi. v. 38. *Leipzig*, 1902. 8°.

Kraus (A.) Catalogo della collezione ethnografico-musicali Kraus in Firenze. *Firenze*, 1901. 8°.

Mireur (H.) Dictionnaire des ventes d'art. t. 1. *Paris*, 1901. 4°.

Pineau (L.) Les vieux chants populaires. *Paris*, 1901. 4°.

Sommerville (M.) Engraved gems. *Philadelphia*, 1901. 4°.

University (The) song book. *London*, 1901. 4°.

Literature, and Literary History.

Bagot (R.) Casting of nets. *London*, 1901. 8°.

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—— Det hvide Hus. *Köbenhavn*, 1901. 16°.

Bergerat (É.) La Pompadour. Comédie dramatique. *Paris*, 1901. 12°.

Bridges (R.) Bramble Brae. *New York*, 1902. 12°.

Browning (*Mrs.* E. B. [B.]) Love poems. *London*, 1902. nar. 16°.
(The lover's library. [v. 6.])

Bute (3. *marquess*), J. P. C. Stuart. Essays on foreign subjects. *Paisley*, 1901. 8°.

Claudin (A.) Histoire de l'imprimerie en France. t. 2. *Paris*, 1901. f°.

Conrad (J.) Lord Jim: a romance. *New York* 1900. 12°.

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Mabie (H. W.) Parables of life. *New York*, 1902. 8°.

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Marni (J.) Manoune: comédie. *Paris*, 1902. 12°.

Sardou (V.), *and* **Gheusi** (P. B.) Les barbares: tragédie lyrique. *Paris*, 1901. 12°.

Spillane (D.) Minor chords. *New York*, 1902. 12°.
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Tarkington (B.) The gentleman from Indiana. *New York*, 1900. 8°.

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Wegelin (O.) Early American fiction, 1774–1830. *Stamford, Conn.*, 1902. 8°.

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Economics, Political Science, Law, Taxation, etc.

Balletti (L.) La municipalizzazione dei servizi publici in Italia. *Varese*, 1901. 16°.

Colson (C.) Cours d'économie politique. v. 1. *Paris*, 1901. 4°.

Dessaix (P.) Montchrétien et l'économie politique nationale. *Paris*, 1901. 4°.

Dunning (W. A.) A history of political theories, ancient and mediæval. *New York*, 1902. 8°.

Franchi (L.) Codici e leggi del regno d'Italia. Reggi e convenzioni sui diritti d'autore. *Milano*, 1902. 2. ed. 16°.
(Manuali Hoepli.)

Hill (F. T.) The care of estates. *New York*, 1901. 12°.
Gift of the Author.

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Lévy (R. G.), **Picot** (C.), *and* **Cailleux** (E.) Congrès des sciences politiques de 1900. Des tendances nouvelles de la législation fiscale en Europe. *Paris*, 1901. 4°.

Marion (M.) L'impôt sur le revenue au dix-huitième siècle principalement en Guyenne. *Toulouse*, 1901. 8°.
(Bibliothèque méridionale, sér. 2, tome 7.)

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(Juristische Bibliothek.)

Transportation and Communication.

American and English railroad cases, edited by T. J. Michie. v. 23. *Charlottesville, Va.*, 1902. 8°.

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Schweigerherchenfeld (A. von), *Freiherr*. Das neue Buch von der Weltpost. *Wien*, 1901. 8°.

Education and Educational Institutions, Libraries, etc.

Brouard (E.) Essai d'histoire critique de l'instruction primaire en France. *Paris*, 1901. 8°.

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Jews.

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Mathematics, Astronomy, Physics.

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(Scientia . . . Physico-mathématique, no. 14.)

Scheffers (G.) Anwendung der Differential- und Integralrechnung auf Geometrie. Bd. 2. *Leipzig*, 1902. 8°.

Studnicka (F. J.) Bericht über die astrologischen Studien des Reformators der beobachtenden Astronomie Tycho Brahe. *Prag*, 1901. 4°.

Natural Science: Geology, Botany, Zoology.

Bailey (L. H.), *and others*. Cyclopedia of American horticulture. v. 4. *New York*, 1902. 4°.

Ingersoll (E.) Wild life of orchard and field. *New York*, 1902. 12°.

Miles (E. H.) Failures of vegetarianism. *London*, 1902. 12°.

Ress (R.) Mosquito brigades and how to organize them. *London*, 1902. 8°.

Sander's orchid guide. *St. Albans*, 1901. 4°.

Suess (E.) Das Antlitz der Erde. Bd. 3, Hälfte 1. *Wien*, 1901. 4.

Sternberg (G. M.) A text-book of bacteriology. *New York*, 1901. 2. ed. 8°.

Military and Naval Art and Science.

Jeans (T. T.) Naval brigades in the South African war. *London*, 1901. 12°.

Leroy (R.) Pensions de l'armée de terre. *Paris*, 1901. 4°.

Liersemann (H.) Erinnerungen eines deutschen Seeoffiziers. *Rostock i. M.*, 1902. 8°.
Proudfit collection.

Mächtig zur See. *Zweibrücken i. Pfalz*, 1901. 8°.
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Schaefer (E.) Geschichte der deutschen Kriegsmarine im neunzehnten Jahrhundert. *Berlin*, 1901. 8°.
(Das deutsche Jahrhundert. Abth. vii.)

Watson (B. F.) Addresses, reviews and episodes, chiefly concerning the "Old Sixth" Massachusetts regiment. *New York*, 1901. 8°.
Gift of the author.

Weiland (B.) Deutschland zur See. *Leipzig*, 1902. 2 pts. ob. 4°.
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Applied Science and Useful Arts.

Cooper (W. R.) Primary batteries. *London*, 1901. 8°.
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Hamilton ( ), *and* **Regnault** (F.) Les gardes-malades. *Paris*,, 1901. 8°.

Hoelbling (V.) Die Fabrikation der Bleichmaterialien. *Berlin*, 1902. 8°.

Hoffmann (R.) Ultramarin. *Braunschweig*, 1902. 8°.

Lehnert (Georg). Das Porzellan. *Bielefeld*, 1902. 4°.
(Sammlung Illustrierter Monographien. Bd. 6.)

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Piazzoli (E.) Installations d'éclairage électrique. *Paris*, 1902. 5. ed. 8°.

Row (T. S.) T. S. Row's geometric exercises in paper folding. *Chicago*, 1901. 8°.

Schaeffer (*Mrs.* J.) Metropolitan club cookbook, New York City. *Minneapolis, Minn.*, 1901. 12°.

Seely (*Mrs.* L.) Mrs. Seely's cook book. *New York*, 1901. 8°.

Thornley (T.) Cotton combing machines. *London*, 1902. 8°.

Triggs (H. J.) Formal gardens in England and Scotland. pt. 1. *London*, 1902. f°.

Werder (L. O.) Types modernes pour dentelles. ser. 2. *Plauen*, 1901. f°.

Theology and Religion.

Bible.—Old Testament. Apocrypha: Ecclesiasticus. Facsimiles of the fragments hitherto recovered of the Book of Ecclesiasticus. *Oxford*, 1901. 4°.

Bible.—Old Testament: Pentateuch. Samaratin-Arabic. Die samaritanisch-arabische Pentateuchübersetzung, Deuteronomium I–XI. *Berlin*, 1901. 8°.
Gift of J. H. Schiff.

Booth (W. B.) Bible battle-axes: a series of short studies for officers of the Salvation Army. *London*, 1901. 12°.
Gift of Salvation Army.

Booth (W. B.) Servants of all. *London*, 1900. 3. ed. 12°.
Gift of the Salvation Army.

Luther (M.) M. Luther's Werke. Bd. 23. *Weimar*, 1901. 4°.

Monita secreta. Istruzioni segrete dei Gesuiti. *Genova*, 1902. 12°.

Pischel (R.), *and* **Geldner** (K. F.) Vedische Studien. Bd. 3. *Stuttgart*, 1901. 8°.

Wetzer und Welte's Kirchenlexicon. Bd. 12. *Freiburg*, 1901. 2. ed. 8°.

Philosophy.

Bucke (R. M) Cosmic consciousness. *Philadelphia*, 1901. 4°.

Emerson (E. R.) Nature and human nature. *Boston*, 1902. 12°.

Hobhouse (L. T.) Mind in evolution. *London*, 1901. 8°.

Kupfer (L.) Greek foreshadowings of modern metaphysical and epistemological thought. *Norwood, Mass.*, 1901. 8°.
Gift of the author.

Thomas (J. W.) Intuitive suggestion. *London*, 1901. 8°.

Philology.

Brynildsen (J.) Norsk-tysk ordsamling. *Kristiania*, 1901. 8°.

Edgren (H.), *and* **Burnet** (P. B.) A French and English dictionary. *New York*, 1901. 8°.

Farmer (J. S.), *and* **Henley** (W. E.) Slang and its analogues. vol. 5, pt. 2. *London*, 1901. 8°.

Fishing—Shooting, etc.

Journé (M.) La pêche fluviale. *Paris*, 1901. 4°.

Relt (H. A.) Grayling fishing in south country streams. *London*, 1901. 12°.

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VOLUME VI · NUMBER 5
MAY 1902

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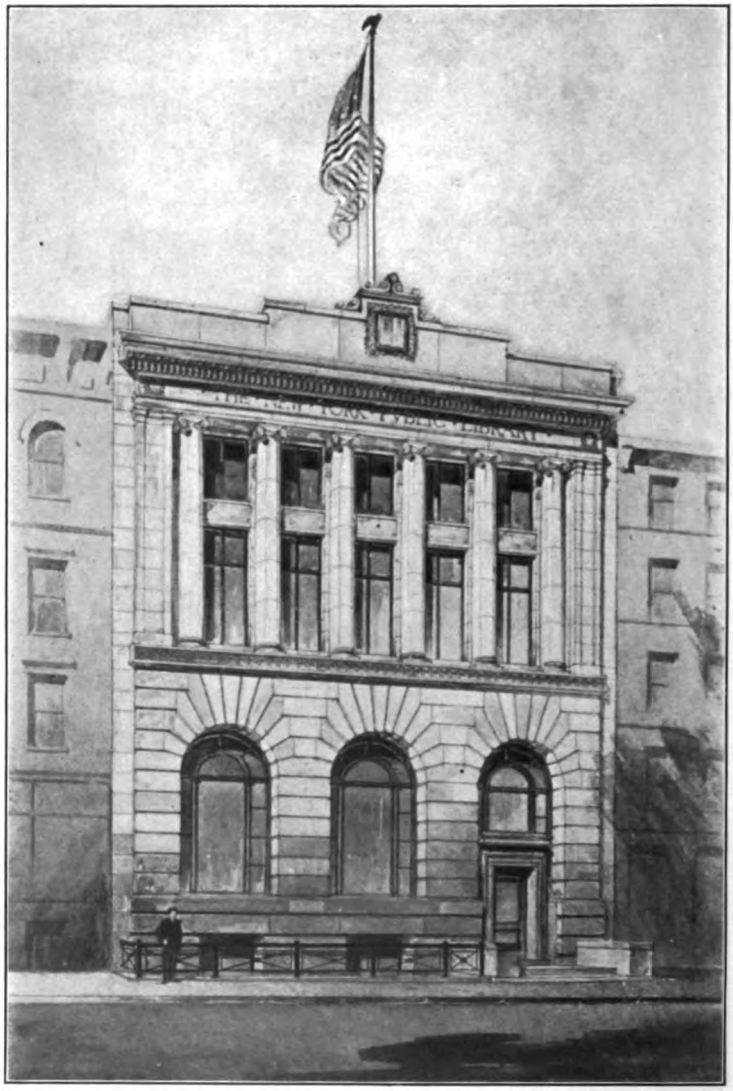

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ASTOR LENOX AND TILDEN FOUNDATIONS

VOL. VI. DECEMBER, 1902. No. 12.

REPORT FOR NOVEMBER.

REFERENCE DEPARTMENT.

During the month of November there were received at the Library, by purchase, 575 volumes and 197 pamphlets; by gift, 1,023 volumes, 2,419 pamphlets and 41 maps; and by exchange, 22 volumes and 31 pamphlets.

There were catalogued 4,183 volumes and 3,552, pamphlets, for which purpose 9,647 cards and 3,338 slips for the copying machine were written, and 16,101 cards were received from the copying machine.

The following table shows the number of readers, and the number of volumes consulted, in both the Astor and Lenox Branches of the Library, also the number of visitors to the Print Department at the Lenox, during the month:

	LENOX.	ASTOR.
No. of readers and visitors	4,668	8,997
No. of readers	2,086	8,997
No. of readers, desk applicants	1,088	8,140
No. of volumes consulted by desk applicants	4,292	29,401
Daily average of readers	83	360
Number of visitors to Print Exhibit, etc.	2,596	

CIRCULATION DEPARTMENT.

The most popular books for the month were (in non-fiction): James's "Talks to Teachers on Psychology," Lamb's "Tales from Shakespeare," and Roosevelt's "The Strenuous Life;" (adult fiction) Wister's "The Virginian," Chambers's "Maid-at-Arms;" Caine's "The Eternal City;" (juvenile fiction) Hegan's "Mrs. Wiggs of the Cabbage Patch," Alcott's "An Old-fashioned Thanksgiving," and Barbour's "Behind the Lines."

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CIRCULATION STATISTICS.

BRANCHES.	CIRCULATION.		NEW REGISTRATIONS.	READERS IN READING ROOM.		VOLUMES ACCESSIONED.
	HOME USE. (VOLUMES.)	HALL USE. (READERS.)		MINORS.	TOTAL.	
Bond Street	9,724	514	190	876	3,316	68
Ottendorfer	18,329	882	341	2,051	4,743	135
George Bruce	13,305	2,802	249	1,625	2,802	107
Jackson Square	11,185	1,224	160	526	2,350	117
Harlem	11,734	1,423	324	1,601	2,524	102
Muhlenberg	9,303	2,748	180	1,427	2,748	95
Bloomingdale	15,507	1,919	284	1,663	3,287	144
Riverside	5,216	1,159	96	1,591	2,567	22
Yorkville	15,640	1,464	282	1,213	1,464	347
Thirty-fourth Street	5,348	1,850	123	1,238	1,850	58
Chatham Square	13,262	1,182	275	992	1,182	148
St. Agnes	12,839	1,842	241	1,106	2,940	79
Washington Heights	9,417	1,170	171	2,614	5,480	181
Travelling	20,923					318
	171,732	20,179	2,916	18,523	37,253	1,921

The most important gifts received at the Library during the month were from Mr. Alexander Maitland and Mrs. Henry Draper. Mr. Maitland gave an interesting volume of 17th and 18th century tracts (1680–1791), many of them Boston imprints, some of the most important titles of which are "The True Protestant (Domestick) Intelligence, or News both from City and Country" (London, 1680, Nos. 1–7); "Rules for the Society of Negroes, 1693" ([Boston, 1693?], 1 page); Question: Are we obliged in this Government of the Massachusetts, by Charter, to Settle a Salary upon the Governor?" ([Boston, 1729] 2 pp.); "The Articles for the Boston Presbiterian Society, Erected September 21st, 1736" (2 pp.); New Hampshire—Journal of the House of Representatives, Jan.–May, 1745 ([Boston, 1745], 45 pp.); Same, Jan.–Feb., 1762 ([Boston, 1762] 13 pp.); "Letters to . . . Earl of Hillsborough, from Gov. Bernard, Gen. Gage," etc. (Boston: Edes & Gill, 1769, 83 pp.); "By the King, A Proclamation for Suppressing Rebellion and Sedition, 23 Aug., 1775," with nine other Revolutionary Proclamations; Quebec, Ordinances, 1777 (132 pp. F°, French and English); Déclaration adressée au nom du Roi à tous les anciens françois de l'Amerique septentrional" [By Count d'Estaing, printed in 1778 on board his flag ship Languedoc, urging French Canadians to rise], 3 pp.; "Proceedings of a General Court Martial . . . For the Trial of Major-General Howe, Dec. 7, 1781" (Philadelphia: Hall & Sellers, 1782, 31 pp. F°); "An Address to the . . . Inhabitants of . . . Maine" (1791, 3 pp., urging statehood); Report of the Secretary of the Treasury, 9 Jan., 1790; and the Report of the Secretary of State, 8 Nov., 1791. Mrs. Draper's gift consisted of a collection of over 2,000 French illustrated almanacks, comprising some 300 titles, ranging in date from 1800 to 1898, bound in 442 volumes, from the library of Sir

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William Augustus Fraser, and of 58 additional volumes to the collections of literary annuals and Almanach des Dames presented by her some months ago.

Other important gifts were: from S. P. Avery, 7 volumes, including 2 volumes of the Wallace collection of paintings at Hertford, 9 pamphlets and 19 prints; from Abraham Cahan, 45 volumes, chiefly sociological works; from the Disconto Gesellschaft, Berlin, its jubilee history; The "Mariner's Magazine" (London, 1684); W. B[rown's] Book of Entries (1671); "Plusieurs très bons cases" . . . par Jean Latch (1661), etc.; from Major Clarence Ewen, 4 volumes in all; from the R. Istituto de Studi Superiori, Firenze, 4 volumes and 4 pamphlets, publications of the Institute; from the Minister of Public Instruction, France, 3 volumes, including "Inventaire général des richesses d'art de la France"; from the Préfet de la Seine, France, 8 volumes and 2 pamphlets; from Funk & Wagnalls, a copy of volume 2 of the Jewish Encyclopædia, together with a complete set of proofs of the "Ark of the Law," illustrating the process of printing a lithographic plate in sixteen colors; from the Harvard Club, 17 volumes and 39 pamphlets, reports of clubs, etc.; from the Kurskaya Gubernskaya Zemskaya Uprava, Kursk, 6 volumes and 7 pamphlets; from George Austin Morrison, Jr., 12 volumes and 34 pamphlets, vocal and piano scores of operas, etc.; from Charles K. Needham, New Albany, Indiana, 14 pieces of paper money, notes of southern and western banks between 1836 and 1855, a Confederate five-dollar note, 4 bills of sale or hire of slaves, a travel permit for a slave, a copy of papers found on a slave sold away from his family in 1844, and a letter of Salmon P. Chase, dated 21 April, 1845, urging attendance at the Southern and Western Liberty Convention at Cincinnati, June 11, 1845; from the Civil Governor of the Philippine Islands, 11 volumes and 218 pamphlets, chiefly general orders, decisions, etc., of the Customs Division; from John Robinson, 16 literary annuals; from George W. Smith, a copy of the Index of Wills, office of the Secretary of State of New Jersey; from the Supreme Court of Australia, a copy of the Catalogue of its Library; from William C. Whitney, a copy of "The Hermitage-Zoar Note Book and Journal of Travel of Alexander Gunn" (New York, 1902); and from the Yorkshire Philosophical Society, 2 volumes and 68 pamphlets, reports and proceedings of the society.

The exhibitions of American wood engravings at the Lenox and of drawings and caricatures of and by Victor Hugo at the Astor were continued during the month.

The new picture bulletins in the circulation branches were as follows: Bond Street, Fires and firemen; Ottendorfer, Thanksgiving day, Some interesting books, Music and musicians, Opera; Bruce, Thanksgiving day, Animals, Christmas, New books; Jackson Square, Thanksgiving day; Harlem, Browning, Bryant, Henty, Longfellow, Stevenson, Whittier; Muhlenberg, College stories, Thanksgiving day, G. A. Henty, New books; Bloomingdale, Thanksgiving day, Henty; Thirty-fourth Street, Thanksgiving day; Chatham Square, Indians, Thanksgiving day, G. A. Henty, Popular authors; St Agnes, Thanksgiving day, Fairy tales, New books, Boarding school stories; Washington Heights, Thanksgiving day.

The cornerstone of the new building was laid November 10th by Mayor Seth Low, addresses being delivered by Hon. John Bigelow, president of the Board of Trustees, and by the Mayor, and prayers being offered by Rev. William R. Hunt-

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ington and the Most Rev. Archbishop Farley. In the cornerstone were placed the following documents: Annual reports of the Astor Library for 1850 and 1894; annual reports of the Lenox Library for 1870 and 1894; vol. 1, no. 1, vol. 2, nos. 1, 2, 4, 10, vol. 3, nos. 1, 3, 10, vol. 4, nos. 1, 10, vol. 5, nos. 1, 3, 6, 7, 10, vol. 6, nos. 1, 10 of the Bulletin of the New York Public Library; Handbook of the New York Public Library, 1900; Catalogue of paintings in the Lenox gallery; Catalogue of paintings in the Robert L. Stuart collection; Handbook of the S. P. Avery collection of prints and art books, 1901; Book of charters, wills, deeds, and consolidation, 1895; By-laws, Nov., 1895, Feb., 1901, of the New York Public Library; Rules, December, 1896; Preliminary competition for the new building, May 21, 1897 (containing Act of Legislature, Chapter 556, Laws of 1897, authorizing the construction of the building at a cost of $2,500,000.00); Circulars 1, 2, 3, 4, and letter of the secretary, July 31, 1897; Terms of competition, Aug. 2, 1897; Resolutions of Board of Estimate and Apportionment, Contract between City and Library trustees, Resolutions of Department of Public Parks, and Contract between City (by Dept. of Parks) and Architects, Dec., 1897; Supplementary Act of Legislature, Chapter 627, Laws of 1900, removing the limit of cost of new building; Correspondence relating to consolidation of free circulating libraries with the New York Public Library, 1900; Agreement of consolidation of the New York Public Library and the New York Free Circulating Library, Jan. 11, 1901; Agreement with the City relative to the gift of Andrew Carnegie, July 17, 1901; Monthly Bulletin of the New York Free Circulating Library, vol. 2, no. 10; vol. 1, no. 2, vol. 2, no. 6 of the "Monthly list of additions" of the Circulation Department of the New York Public Library; 21st and final Report of the New York Free Circulating Library; volume of Minutes of the Park Board containing action of Department with regard to the Library; copy of contract and specifications for removal of the Reservoir; copy of contract and specifications for Library building proper; copy of invitation to cornerstone ceremonies; list of Commissioners and officers of the Park Board; photographs of Reservoir, drawings of Library, and site of the building; historical description of Library building; and newspapers of the day.

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SIR RALPH WINWOOD TO EARL SALISBURY ON THE ASSASSINATION OF HENRY IV., IN 1610.

(Printed from the Hardwicke manuscripts in the New York Public Library.)

HAGUE, 8th MAY 1610

I write not at this time to advertise your L^t of that most wretched & damnable Massacre, perpetrated on Friday last, between the Hours of 4 & 5 in the Evening, upon the Person of the French King, in Paris, (the particulars whereof, before these were written, are come to your L^t's knowledge) but out of my Duty to His Majesty's Service, humbly to crave your L^t's Directions, upon this unhappy & unreasonable Accident; which being of that important consequence, cannot but stagger all present Revolutions; & necessarily will produce strange Alterations, if not miserable Confusions in these Parts of the World. That which doth give no respite for deliberation, but doth press & cry for Execution, is the Affair of the Princes, for their Establishment in the Possession of Cleves & Juliers; Which Cause, unless His Majesty shall be pleased, out of his princely care for the maintenance of Justice, & the defence of Religion, to embrace with a strong & powerful Resolution, will fall to the ground. How much, the Greatness of the House of Austria, will be thereby reinforced, which never was brought to so low an ebb, & what courage the Pope & his Prelates will recover, who now are aux derniers abboye & gasp for breath, it were vanity for me to discourse to your L^t. This Morning, upon the first bruit of this Disaster, which came hither by the Mouth of a Messenger, who only delivereth the Fact, without Circumstance, I spake together with the C. Maurice & M. Barnevelt, They jointly acknowledge, what the truth is, that the subsistence of the Realm of France, that by a Relapse into Civil & Internal Dissensions, it become not to be Cantoned, & so Morsel after Morsel, to be devoured by Spain. That the Union of the Provinces remain forever indissoluble & undivided: That the Princes be established in their rightful Possessions of Cleves & Juliers; in Sum, that Europe become not a Prey to the Tyranny of the House of Austria, wholly dependeth upon the magnanimous Resolutions His Majesty will be pleased now to take; to whom the Providence of God, by this Occasion, doth minister a most spacious Field, wherein to exercise his royal virtues of magnanimity, of Piety, of Mercy, & Justice, wherewith he is so richly endowed. I find by them, they love no Cowage; Principes mortales, Respublica est immortalis. What His Majesty shall be pleased to resolve, direct & advise therein, They will join, & that They will precisely follow; even above the Power & Strength of their means. Untill We shall receive Letters from your L^p., which shall take notice of this unhappiness, notwithstanding any Directions which We presume are now on the way, all Things here shall stand at a stay; only, the States General will write to the Princes, to have care of their affairs, with promise of assistance from Themselves, & continuance of His Majesty's gracious Favor to their Cause.

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The Princes have given a second blow to Leopold, by the defeat of 700 Foot, which lately were overthrown by a Count of Solmes.

Tho the Marquis Spinola hath an Army on foot, We do not think that suddenly he will engage himself for Leopold, but rather will lie aux escortes, to see what Party in France, will declare for the Prince of Conde; to whose Assistance perhaps he will come.

The States Emb^r on Sunday last returned out of France, only Monsr Walderec is yet in Zealand.

By a Dispatch the States General send now, the Emb^rs. in England have Order to make an Account to His Majesty; what hath been treated in France. Upon a late advertisement I have received, I charged this day Monsr Barnevelt, that their Emb^rs. in France, had there contracted to break with the Archduke, & had partaged the Wolf's Skin yet being alive. But he constantly affirmed the information to be ill grounded.

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LIST OF WORKS ON ELECTRICITY IN THE NEW YORK PUBLIC LIBRARY.

Part II. For Part I (General Works and Production) see the November *Bulletin*.

TRANSMISSION.

General Works.

Higgs (P.) Electric transmission of power; its present position and advantages. *London*, 1879. il. 12°.

Japing (E.) Die elektrische Kraftübertragung und ihre Anwendung in der Praxis. Mit besonderer Rücksicht auf die Fortleitung und Vertheilung des elektrischen Stromes. *Wien*, 1883. 12°.
(Elektro-technische Bibliothek. Band 2, bd. with Bd. 1.)

Zacharias (J.) Die elektrischen Leitungen und ihre Anlage für alle Zwecke der Praxis. *Wien*, 1883. 12°.
(Elektro-technische Bibliothek. Band 16, bd. with Bd. 13.)

Boulanger (J.) Sur l'emploi de l'électricité pour la transmission du travail à distance. *Paris: Gautier Villars*, 1887. 8°.

Krieg (Martin). Die Erzeugung und Verteilung der Elektrizität in Zentral Stationen. Bd. 2. *Magdeburg: Faber*, 1888. 1 v. 8°.

Marié (Georges). Les régulateurs dans les distributions d'électricité. *Paris: Vve C. Dunod*, 1888. 104 pp., 3 pl. 8°.
Repr.: Annales des mines, 1888.

Badt (F. B.) Electric transmission hand-book. *Chicago: Electrical Pub. Co.*, 1891. 16°.

Maycock (W. P.) Electric lighting and power distribution; an elementary manual . . . *London*, 1892. 16°.

Kapp (G.) Electric transmission of energy . . . a practical handbook. 3 ed. *London: Whittaker & Co.*, 1891. 12°.
(Specialists' series.)

Picou (R. V.) La distribution de l'électricité: usines centrales. *Paris* [1892]. 12°.
(Encycl. scient. d. aide-mém. Sect. de l'ingén.)

Weiller (L.), *and* **Vivares** (H.) Traité général des lignes et transmissions électriques. *Paris*, 1892. 4°.

Herzog (J.), *and* **Feldmann** (C. P.) Die Berechnung elektrischer Leitungsnetze in Theorie und Praxis. *Berlin*, 1893. 8°.

Snell (Albion T.) Electric motive power: the transmission and distribution of electric power by continuous and alternate currents. With a section on the applications of electricity to mining work. vi, 403 pp., 2 l. *New York: D. Van Nostrand Co.*, 1894. 8°.
(Electrician ser.)

Venable (W. M.) Long-distance transmission of energy by electricity. [*Cincinnati*, 1895?] 12°.
(Engineers' Club of Cincinnati. [Papers.])

Bell (L.) Electric power transmission. A practical treatise for practical men. 4 p. l., 491 pp., 4 pl. *New York: The W. J. Johnston Co.*, 1897. 8°.

Hochenegg (C.) Anordnung und Bemessung elektrischer Leitungen. 2. Aufl. viii, 214 pp. *Berlin: J. Springer*, 1897. 8°.

Scott (E. K.) The local distribution of electric power in workshops, etc. *London: Biggs & Co.* [1897]. 4 p. l., 137, viii pp., 1 l. 12°.

Blondel (A.) De l'utilité publique des transmissions électriques d'énergie. But, procédes, état actuel, valeur économique et avenir. (Annales d. ponts et chausées. Partie 1, sér. 7, v. 8, Trimes. 1, pp. 60–162. *Paris*, 1898.)

Dennhardt ([A. W.] R.) *Ueber Beziehungen zwischen Fluidität und electrolytischer Leitfähigkeit von Salzlösungen sowie über die Leitfähigkeit von Ölsäure und deren Alkalisalzen in Wasser bez. Alkoholen bei verschiedenen Temperaturen. [Erlangen.] *Leipzig: J. A. Barth*, 1898. 40 pp., 1 l., 1 tab. 8°.

Ferguson (Louis A.) General distribution from central stations by direct currents. (Electrical World. *New York*, 1898. F°. v. 31, pp. 779–781; 32, pp. 7–10.)

Forbes (George). Long-distance transmission of electric power. (Jour. of the Soc. of Arts. *London*, 1898. 8°. v. 47, pp. 25–35).

Hentze (W.) Analytische Berechnung elektrischer Leitungen. *Berlin: J. Springer*, 1898. 3 p. l., 81 pp. 8°.

High-tension trunk mains. (Engineer. *London*, 1898. f°. v. 86, pp. 531–532.)

Howell (John W.) Two-wire distributing systems and lamps at 200–240 volts. (Electrical World. *New York*, 1898. f°. v. 32, pp. 40–41.)

Kelley (W. S.) Consideration of the multiphase system for central station service. (Electrical Engineer. *New York*, 1898. f°. v. 26, pp. 281–284.)

Kohlfuerst ([L.]) Die gemischten Betriebe auf Schwachstromleitungen mit besonderer Berücksichtigung der beim Nachrichtenwesen der Eisenbahnen vorkommenden Anordnungen. *Stuttgart: F. Enke*, 1898. pp. 255–320. 8°.
(Samm. elektrotechn. Vort. Bd. 1, Hft. 7–8.)

Mavor (Henry A.) Some of the economic and practical aspects of electrical power distribution in factories. 1 pl., 3 tab. (Transac. Inst. of Engineers and Shipbuilders in Scotland. *Glasgow*, 1898. 8°. v. 41, pp. 313–326.)

Reyval (J.) Matériel fortis pour canalisations aériennes à hautes tensions. (L'éclairage électrique. *Paris*, 1898. 4°. v. 17, pp. 351–356.)

Siemens (Alexander). Transmission of power by electricity. (Electrical Engineer. *London*, 1898. 4°. v. (28) n. s., v. 22, pp. 358–360.)

Emmet (W. L. R.) Means of attaining safety in electrical distribution. (Electr. Rev. v. 34, pp. 354–355, 362. *New York*, 1899.)

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Transmission, cont'd.

Frankenfield (Budd). Economy of copper in transmission lines. (Wisconsin Engineer. *Madison, Wis.*, 1899. 8°. v. 3, pp. 84–98.)

Guilbert (C. F.) Systèmes de distribution de l'énergie électrique: système de distribution par courants alternatifs. (Éclairage électrique. v. 19, pp. 281–289, 401–410; v. 22, pp. 13–21. *Paris*, 1899.)

Kilgour (Hamilton). Miscellaneous notes on the Cheltenham mains. (Electr. Engineer. v. 29 (n. s., v. 23), pp. 596–599, 627–630. *London*, 1899.)

Kraftübertragung unter 40,000 V. Spannung. (Elektrotechnische Ztschr. *Berlin*, 1899. f°. Jahrg. 20, pp. 118–120, 154–158.)

Lasche (O.) Elektrischer Einzelantrieb mit Drehstrom. 2 pl. (Zeitschr. d. Vereines deutscher Ingenieure. v. 43, pp. 287–297. *Berlin*, 1899.)

Leblanc (Maurice). Étude sur la transmission et la distribution de l'énergie par les courants alternatifs. (L'éclairage électr. v. 17, pp. 425–432, 473–482, 509–512, 547–551; v. 18, pp. 123–128, 161–167, 249–253, 376–379, 488–491; v. 20, pp. 171–178, 205–211, 253–261, 292–296, 404–413, 447–456, 498–506. *Paris*, 1899.)

Leslie (E. A.) Some notes on underground distribution of two-phase currents in New York city. (Electr. World and Engineer. v. 33, pp. 844–845. *New York*, 1899.)

—— ——. (Electrical Review. v. 34, pp. 412–413. *New York*, 1899.)

Raworth (John S.) The generation and electrical distribution of motive power. (Electr. Engineer. (v. 30) n. s., v. 24, pp. 562–564, 597–598. *London*, 1899.)

—— —— (Engineering. v. 68, pp. 578–580. *London*, 1899.)

Schueler (L.) Mess-Schaltung für Hochspannungs Anlagen. (Elektrotechnische Ztschr. Jahrg. 20, pp. 868–869. *Berlin*, 1899.)

Sellers (Coleman). Chairman's annual discourse for 1899, on the transmission of energy by electricity. (Amer. philos. soc. Proc. v. 38, pp. 49–71. *Philadelphia*, 1899.)

Wilson (Ernest). Power distribution for electrical traction. (Engineer. *London*, 1899. f°. v. 87, pp. 51–52.)

Adams (Alton D.) The economics of long distance electric power transmission. (Engineering News. v. 43, pp. 73–74. *New York*, 1900.)

—— The future of electrical supply. (Engineering Maga. v. 18, pp. 837–843. *New York*, 1900.)

—— Limits of electric transmission. (Scientif. Amer. v. 83, 115 pp. *New York*, 1900.)

Aldrich (William S.) Systems and efficiency of electric transmission in factories and mills. (Jour. Amer. Soc. of Naval Engineers. v. 12, pp. 402–420. *Washington*, 1900.)

Barton (Edwin H.), *and* **Lownds** (Louis). Reflexion and transmission by condensers of electric waves along wires. (Phys. Soc. of London. Proc. v. 17, pp. 273–312. *London*, 1900.)

Bell (Louis). A field for long-distance transmission. (Electr. Rev. v. 36, p. 227. *New York*, 1900.)

Crocker (Francis B.) Principles of alternating current distribution. (School of Mines Quar. v. 21, pp. 93–112. *New York*, 1900.)

Cuénod ( ). Distribution de la force à de grandes distances par l'électricité au moyen du courant continu à intensité constante. (Bull. Soc. internat. d. électriciens. v. 17, pp. 9–92. *Paris*, 1900.)

Earle (H. A.) Relative advantages of direct-current and three-phase distribution for small installations. (Electrical Engineer. v. 32 (n. s., v. 26), pp. 766–770. *London*, 1900.)

Electric energy in bulk. (Engineering. v. 69, pp. 223–224. *London*, 1900.)

Gerard (Eric). Nouveaux progrès dans les distributions électriques. (Rev. univers. d. mines. sér. 3, v. 51, pp. 70–76. *Liège*, 1900.)

Goldsborough (W. E.) The limitations of long-distance power transmission. (Electr. Rev. v. 36, p. 391. *New York*, 1900.)

Guarini ( ). La transmission de l'énergie électrique par l'éther. (Bull. de la Soc. belge d'électriciens. v. 17, pp. 15–28. *Bruxelles*, 1900.)

Henry (Edmond). Application de la transmission de l'énergie par l'électricité aux chantiers de travaux publics. (Congrès internat. de mécanique appliquée à l'exposition de 1900. v. 1, Rapports, pp. 285–292. *Paris*, 1900.)

Herzog (Josef), *and* **Feldmann** (Clarence P.) Ueber widerstandstreue Umgestaltung elektrischer Leitungsnetze (Transfigurirung). (Elektrotech. Ztschr. Jahrg. 21, pp. 167–171. *Berlin*, 1900.)

Kraemer (J.) Wirkungsgrade und Kosten elektrischer und mechanischer Kraft-Transmissionen . . . *Leipzig: O. Leiner*, 1900. viii, 126 pp. 2 ed. 8°.

Macdonald (Hector Munro). Demonstration of Green's formula for electric density near the vertex of a right cone. (Cambridge Philos. Soc. Trans. v. 18, pp. 292–297. *Cambridge*, 1900.)

Perrine (Frederic A. C.) Regulation in long-distance transmission. (Electr. Rev. v. 37, pp. 152–153. *New York*, 1900.)

Preller (C. Du Riche). Alternate current power transmissions. (Engineering. v. 69, pp. 37–40. *London*, 1900.

Russell (Alexander). The theory of the power factor. (Electrician. v. 44, pp. 49–50, 72–73. *London*, 1900.)

Reviewed by J. R. in L'éclairage electr. v. 22, pp. 102–106. *Paris*, 1900.

Wordingham (C. H.) On the maintenance of certain portions of distributing systems at earth potential. (Electrical Engineer. v. 32 (n. s., v. 26), pp. 93–95. *London*, 1900.)

Aldrich (Wm. S.) Requirements of electricity in manufacturing work. (Transac. Amer. Soc. of Mechanical Engineers. v. 22, pp. 1003–1019. *New York*, 1901.)

Appleyard (Rollo). A direct-reading conductivity-bridge. (Lond., Edinb. and Dublin Philosoph. Maga. and Jour. of Sci. ser. 6, v. 2 (v. 51) pp. 178–179. *London*, 1901.)

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Transmission, cont'd.

Columbo (L. Vincenzo). Raggio economico in una distribuzione di energia elettrica con sotto-stazioni di trasformatori. (Atti dell' assoc. elettrotecn. italiana. v. 4, pp. 81–90. *Torino*, 1900.)

Discussion (A) of electrical distribution. Papers and discussions at the recent meeting of the American Institute of Electrical Engineers. (Electr. Rev. v. 39, pp. 683–686. *New York*, 1901.)

Dussaugey (E.) Étude économique d'un transport d'énergie à grande distance; avec preface par J. Pionchon. *Grenoble: A. Gratier & Cie.*, 1901. xv, 50 pp., 1 l. 8°. (Au pays de la houille blanche.)

Earth potential curves from Chicago, Toledo and Columbus. (Elec. World and Engineer. v. 37, pp. 594–595. *New York*, 1901.)

Electric (The) distribution of power in workshops. Discussion. (Jour. Franklin Inst. v. 151, pp. 1–28. *Philadelphia*, 1901.)

Field (Michael B.) The relative advantages of three, two, and single phase systems for feeding low-tension net-works. (Electr. Engineer. v. 34 (n. s., v. 28), pp. 555–557; 587–589. *London*, 1901.)

—— —— (Electrician. v. 48, pp. 297–299; 342–344. *London*, 1901.)

Esson (W. B.) The case for electric power distribution. (Electrical Engineer. (v. 33 (n. s., v. 27), pp. 46–51. *London*, 1901.)

—— —— (Journal Institute of Electr. Engineers. v. 31, pp. 138–158. *London*, 1901.)

—— —— (Electrician. v. 46, pp. 461–464; 503–506. *London*, 1901.)

Griveaud (Léon). Étude sur les poteaux et les pylones pour le transport de l'energie électrique. (Rev. gen. de la construction metallique et de la serrurerie: partie technique, 1901. pp. 21–24; 33–44; 120–122; 129–145; 161–164; 212–214; 225–233; 257–265; 307–312; 342–348; 353–360. *Paris*, 1901.)

Hoit (Lehman B.) Efficiency of multiple voltage control in electric power transmission. (Assoc. Engineering Soc. v. 27, pp. 87–98. *Philadelphia*, 1901.)

Jones (Forrest R.) Power and light for the machine shop and foundry. (Transac. Amer. Soc. of Mechanical Engineers. v. 22, pp. 366–385. *New York*, 1901.)

Latour (Marius). Sur le système de transmission Bedell à courant ondulé. (L'éclairage électrique. v. 27, pp. 13–15. *Paris*, 1901.)

Mead (Daniel W.) Some notes on electric light and power distribution. (Municipal engineering, v. 21, pp. 57–60; 131–139; 207–214; 379–386. (*Indianapolis*, 1901.)

Negro (Luigi). Conduttura elettromagnetica a contatti superficiali per ferrovie e tramvie elettriche. (Atti dell' assoc. elettrotecn. italiana. v. 5, pp. 231–245. *Torino*, 1901.)

Negrotti (Diofebo). Calcolo delle lunghe linee di trasmissione di energia mediante correnti monofasi. (La rivista tecnica. Anno 1, pp. 542–553. *Torino*, 1901.)

—— Calcolo delle lunghe linee di trasmissione di energia mediante correnti polifasi. (La rivista tecnica. Anno 1, pp. 740–749. *Torino*, 1901.)

Perrine (F. A. C.) Elements of design particularly pertaining to long-distance transmission. (Electr. Rev. v. 39, pp. 255–257. *New York*, 1901.)

Rice (E. W.), *jr.* The control of high potential systems of large power. (Trans. Amer. Inst. of Electr. Engineers. v. 18, pp. 895–908. *New York*, 1901.)

Schnetzler (K.) Über die Grenzen der Hochspannung bei elektrotechnischen Anlagen. (Schilling's Jour. F. Gasbeleucht. Jahrg. 44, pp. 250–254. *München*, 1901.)

Startsman (Charles W.) The theory and calculations of alternating-current transmission lines. (Electr. Rev. v. 39, pp. 781–786. *New York*, 1901.)

Stillwell (Lewis B.) The electric transmission of power from Niagara falls. (Electr. Rev. v. 39, pp. 451–452; 472–474; 508–510; 536–539; 574–577; 636–638; 665–666; 693–697. *New York*, 1901.)

Stott (Henry Gordon). The distribution and conversion of received currents. (Electr. Rev. v. 38, pp. 521–523. *New York*, 1901.)

Thornton (K. B.) Notes on the construction and protection of aerial transmission and distribution systems. (Electr. World and Engineer. v. 38, pp. 61–64. *New York*, 1901.)

—— —— (Electrical Review. v. 39, pp. 14–15. *New York*, 1901.)

Abraham (A. J.) The earthing of the middle conductor. (Electrical Rev. v. 51, p. 291. *London*, 1902.)

Adams (Alton D.) The physical limits of electric power transmission. (Engineering Maga. v. 24, pp. 10–16. *London*, 1902.)

Aldrich (William S.) Electric transmission of power for navy yards. (Jour. Amer. Soc. of Naval Engineers. v. 14, pp. 448–457. *Washington, D.C.*, 1902.)

Baillie (G. H.) The effects of self-induction and capacity in electric transmission. (Electrician. v. 49, pp. 517–519; 635–638. *London*, 1902.)

Blanck (W.) Moderne Hochspannungsanlagen in amerikanischen Grossstädten.) Elektrotech. Ztsch. Jahrg. 23, pp. 665–670; 691–697. *Berlin*, 1902.)

Dumas (A.) Transport d'énergie par courant continu de Saint-Maurice à Lausanne. 1 pl. (Le Génie civil. v. 41, pp. 213–220. *Paris*, 1902.)

Eddy (Henry T.) Attenuation and distortion on long distance telephone and power transmission lines regarded as hydrodynamic phenomena. (Electr. World and Engineer. v. 40, pp. 127–128. *New York*, 1902.)

—— —— (Electrical Review. v. 41, pp. 164–165. *New York*, 1902.)

Electric transmission systems. Discussion. (Transac. Amer. Inst. of Electr. Engineers. v. 19, pp. 166–187. *New York*, 1902.)

Hayes (Stephen O.) The transmission system of the Compania Explotadora de San Idlefonso of the City of Mexico. (Electr. World and Engineer. v. 39, pp. 465–471; 503–507; 545–548. *New York*, 1902.)

In this system, the usual arrangement of a single generating station furnishing power to a number of sub-stations is reversed, and a number of generating stations supply power to a single sub-station.

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Transmission, cont'd.

Long transmission from a steam station for electric traction. (Electr. World and Engineer. v. 40, pp. 569–576. *New York*, 1902.)

Marquet (Charles). Les secteurs de distribution d'électricité à Paris. (Génie civil. v. 40, pp. 346–349; 359–362; 377–380; 395–397; 410–413. *Paris*, 1902.)

Reyval (J.) Lignes de transport d'énergie à 26,000 volts, de la région de Grenoble. (L'éclair. electr. v. 32, pp. 77–84. *Paris*, 1902.)

Snell (John F. C.) The relative advantages of two and three-wire distribution. [Discussion.] (Electrician. v. 49, pp. 630–633. *London*, 1902.)

Stewart (Andrew). Some notes on the influence of the sub-station equipment and transmission line on the cost of electricity supply. (Elect. Engineer. v. 35 (n. s., v. 29), pp. 159–161; 225–227; 261–262. *London*, 1902.)

CIRCUITS.

Du Bois (H.) The magnetic circuit in theory and practice; translated by Dr. Atkinson. xviii, (2) 362 pp. ill. *London: Longmans, Green & Co.*, 1896. 8°.

Hutchinson (Cary T.) The protection of secondary circuits from fire risks. (Electr. Rev. v. 35, pp. 30–31. *New York*, 1899.)

Heubach (Julius). Der Widerstand des Kurzschlussankers. (Elektrotechnische Ztschr. Jahrg. 22, pp. 430–434. *Berlin*, 1901.)

Kennelly (A. E.) Surges in transmission circuits. (Electr. World and Engineer. v. 38, pp. 847–849. *New York*, 1901.)

Thomas (Percy H.) Static strains in high tension circuits and the protection of apparatus. (Transac. Amer. Inst. of Electr. Engineers. v. 19, pp. 189–240. *New York*, 1902.)

—— —— (Electr. Rev. v. 40, pp. 261–265; 323–326. *New York*, 1902.)

CONDUCTION.

Zacharias (J.) Die Unterhaltung und Reparatur der elektrischen Leitungen für alle Zwecke der Praxis. *Wien*, 1884. 12°. (Elektro-tech. Bibl., Bd. 24.)

Branly (Édouard). Conductibilité électrique des radioconducteurs. [Rev. d. questions scientif. *Louvain*, 1898. 8°. (v. 43) ser. 2, v. 13, pp. 353–369).

Pierce (Benjamin Osgood), *and* **Willson** (Robert Wheeler). On the thermal conductivities of certain poor conductors. I. Illus. diagrams. (Amer. Acad. of Arts and Sciences. Proc. v. 34, pp. 1–50. *Boston*, 1898.)

Dufour (M.) Remarque sur les réseaux de conducteurs. Une propriété du pont de Wheatstone. (Jour. de physique théor. & appl. *Paris*, 1899. 8°. sér. 3, v. 8, pp. 165–166.)

Grassi (G.) Calcul de la puissance absorbée par les courants de Foucault dans les conducteurs. (Éclairage électr. *Paris*, 1899. 4°. v. 18, pp. 307–310.)

Harth (Henry P.) The determination of standards of conductivity. (Electr. World and Engineer. v. 34, pp. 447–448. *New York*, 1899.)

Kohlrausch (Friedrich). Über den stationären Temperaturzustand eines von einem elektrischen Strome erwärmten Leiters. (Kön-preuss. Akad. d. Wissensch. Sitzungsb. 1899, p. 711–718. *Berlin*, 1899.)

Pomey (J. B.) Sur les réseaux de conducteurs à dimensions transversales finies. (Éclairage électrique. v. 19, pp. 169–172. *Paris*, 1899.)

Julius (Victor August). Sur l'action subie par un conducteur chargé dans un champ d'intensité constante. (Archives néerlandaises. sér. 2, v. 5, p. 17–31. *La Haye*, 1900.)

Kohlrausch (Friedrich). Ueber den stationären Temperaturzustand eines elektrisch geheizten Leiters. (Annalen d. Physik. ser 4, v. 1, pp. 132–158. *Leipzig*, 1900.)

Lees (Charles H.) On the conductivities of certain heterogeneous media for a steady flux having a potential. (Lond., Edinb., and Dub. Philosoph Maga. and Jour. of Sci. ser. 5, v. 49, pp. 221–226. *London*, 1900.)

—— —— (Physical Society of London. Proceedings. v. 17, pp. 68–73. *London*, 1900.)

Sever (George F.) Engineering tests on direct current electrical machinery with preliminary tests on the properties of conductors. (School of Mines Quar. v. 21, pp. 113–136. *New York*, 1900.)

Wilkens (K.) Uber die Erwärmung unterirdischer elektrischer Leitungen. (Elektrotechnische Ztschr. Jahrg. 21, pp. 413–416. *Berlin*, 1900.)

Pupin (M. I.) A note on loaded conductors. (Electr. World and Engineer. v. 38, pp. 587–588. *New York*, 1901.)

Addicks (Lawrence). The commercial measurement of electrical conductivity. (Electr. Rev. v. 40, pp. 460–462. *New York*, 1902.)

Bose (Emil). Ueber die Natur der Elektricitätsleitung in elektrolytischen Glühkörpern. (Nachrichten v. d. Kön. Gesellsch. d. Wissensch. Math.-phys. Klasse. 1902, Heft 1, pp. 1–19. *Göttingen*, 1902.)

Gumlich (E.) Ueber das Verhältniss der magnetischen Eigenschaften zum elektrischen Leitvermögen magnetischer Materialien. (Elektrotechn. Ztschr. Jahrg. 23, pp. 101–102. *Berlin*, 1902.)

Perkins (Charles A.) The heating of electrical conductors in a liquid bath. (Univers. of Tennessee Rec. v. 5, pp. 233–237. *Knoxville*, 1902.)

Pupin (M. T.) The general problem of wave propagation over non-uniform conductors. (Electr. World and Engineer. v. 39, pp. 384–387. *New York*, 1902.)

Warluzel ( ). Détermination de la section des conducteurs. (Rev. tech. v. 23, pp. 283–287. *Paris*, 1902.)

Zeeman (Pieter). Measures relatives à l'absorption des vibrations électriques dans un électrolyte. *2 plates.* (Archives néerlandaises, sér. 2, v. 7, pp. 10–27. *La Haye*, 1902.)

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Conduction, cont'd.

Conduction in Various Media.

—— *Aluminum.*

Kershau (John B. C.) L'aluminium utilisé comme conducteur de l'électricité. (Soc. belge d'électriciens. Bull. mensuel. v. 18, pp. 253–257. *Bruxelles*, 1901.)

—— *Amidosulphonic acid.*

Sakurai (Jōji). Molecular conductivity of amidosulphonic acid. (Imperial univ. of Japan, College of sci. Jour. v. 9, p. 259–271. *Tokyo*, 1897.)

—— *Copper.*

Sanford (F.) Some observations upon the conductivity of a copper wire in various dielectrics. *Palo Alto, Cal.: The University*, 1892. 41 pp., 3 diagr. 8°. (Leland Stanford Junior Univ. Pubs. Studies in electricity, No. 1.)

Merrill (Joseph Francis). Influence of the surrounding dielectric on the conductivity of copper wire. (Physical Rev. *New York*, 1899. 8°. v. 8, pp. 112–127.)

—— *Dichlorofluoracetic acid.*

Swarts (F.) Sur la conductibilité électrique de l'acide dichlorflouracétique. [*Bruxelles: Hayez*, 1895.] 8 pp. 8°. (In Acad. roy. d. Belgique. Mém. cour. et autres mem. v. 51. no. 3.)

—— *Gases.*

Wilson (Harold A.) On the electrical conductivity of flames containing salt vapors. *Illus.* (Roy. soc. of London. Philos. trans. v. 192, ser. A, p. 499–528. *London*, 1899.)

Smithells (Arthur), **Dawson** (H. M.), *and* **Wilson** (Harold A.) Electrical conductivity and luminosity of flames containing vaporised salts. *Illus.* (Roy. soc. of London. Philos. trans. v. 193, ser. A, p. 89–128. *London*, 1900.)

McLennan (John Cunningham). Electrical conductivity in gases traversed by cathode rays. *Illus.* (Roy. soc. of London. Philos. trans. v. 195, ser. A, pp. 49–77. *London*, 1901.)

Pochettino (A.) Sulla conducibilità elettrica dei vapori di ipoazotide. (R. accad. d. Lincei. Rendic. classe di sci. fis. ser. 5, v. 10, pt. 2, pp. 202–207. *Roma*, 1901.)

Strutt (Robert John). On the conductivity of gases under the Becquerel rays. *Illus.* (Roy. soc. of London. Philos. trans. v. 196, ser. A, pp. 507–527. *London*, 1901.)

Wilson (Harold Albert). On the electrical conductivity of air and salt vapors. *Illus.* (Roy. soc. of London. Philos. trans. v. 197, ser. A, pp. 421–441. *London*, 1901.)

Lewis (Percival). The rôle of water vapour in gaseous conduction. (Lond., Edinb. and Dub. Philosoph. Maga. ser. 6, v. 3, pp. 512–514. *London*, 1902.)

McClelland (J. A.) On the action of incandescent metals in producing electric conductivity in gases. (Proc. Cambridge Philosoph. soc. v. 11, pp. 296–305. *Cambridge, Eng.*, 1902.)

—— *Glass.*

Bollé (Erwin). *Zur Kenntniss des electrischen Leitvermögens von Glas und Bergkrystall . . . *Berlin: A. Lüdtke* [1900?]. 38 pp., 1 l., 1 pl. 8°.

—— *Iron and Steel.*

Barrett (William F.), **Brown** (W.), *and* **Hadfield** (R. A.) On the electrical conductivity and magnetic permeability of various alloys of iron. *12 illus. 8 tables.* (Roy. Dublin soc. Scient. trans. ser. 2, v. 7, pp. 67–126. *Dublin*, 1900.)

Hall (Edwin Herbert). On the thermal and electrical conductivity of soft iron. Diagram. (Amer. acad. of arts and sci. Proc. v. 36, pp. 119–141. *Boston*, 1900. 8°.)

Benedicks (Carl). Der elektrische Leitungswiderstand des Stahles und des reinen Eisens. (Ztsch. f. physikal. Chemie. v. 40, pp. 545–560. *Leipzig*, 1902.)

—— *Liquids.*

Bryan (G. B.) On the determination of the conductivity of liquids in thin layers. *Illus.* (Philos. mag. and jour. of science. ser. 5, v. 45, pp. 253–272. *London*, 1898.)

—— *Magnalium.*

Grau ( ). Widerstandscoefficient und Leitungsfähigkeit des Magnaliums. (Mittheil d. k. k. tech. Gewerbe-Museums in Wien. n. s. Jahrg. 10, pp. 266–268. *Wien*, 1900.)

—— *Metals.*

Straneo (Paolo). Sulla determinazione simultanea delle conducibilità termiche ed elettrica dei metalli a differenti temperature. (R. accad. dei Lincei. Rendic. classe d. sci. fis. v. 7, pt. 1, pp. 197–202. *Roma*, 1898.)

Jaeger (Wilhelm), *and* **Dieselhorst** (H.) Wärmeleitung, Elektricitätsleitung, Wärmecapacität und Thermokraft einiger Metalle. (Königsberg. Akad. d. Wissensch. Sitzungsb. 1899, pp. 719–726. *Berlin*, 1899.)

Riecke (Eduard). Ueber das Verhältnis der Leitfähigkeiten der Metalle für Wärme und für Elektricität. (Annalen d. Physik. ser. 4, v. 2, pp. 835–842. *Leipzig*, 1900.)

Bose (Jagadis Chunder). On the change of conductivity of metallic particles under cyclic electromotive variation. (Electrician. v. 47, pp. 830–832; 877–881. *London*, 1901.)

Thompson (J. J.) On the theory of electric conduction through thin metallic films. Proc. Cambridge Philosoph. Soc. v. 11, pp. 120–122. *Cambridge*, 1901.)

Drude (P.) Zur Elektronentheorie der Metalle. (Annalen d. Physik. ser. 4, v. 7, pp. 687–692. *Leipzig*, 1902.)

Streints (Franz). Leitvermögen und Atomwärme der Metalle. (Annalen d. Physik. ser. 4, v. 8, pp. 847–853. *Leipzig*, 1902.)

—— *Minerals.*

Beijerinck (F.) Ueber das Leitungsvermögen der Mineralien für Elektricität. 1 pl. (Neues Jahrb. f. Mineral. Geol. u. Palaeontol. *Stuttgart*, 1898. 8°. v. 11, pp. 403–474.)

—— *Paraffin.*

Hasenöhrl (Fritz). Uber den Rückstand und die Leitfähigkeit von Paraffin und Schwefel. (Kais. Akad. d. Wissensch. Math.-naturwiss. Classe. Sitzungsb. v. 107, pt. 2a, pp. 1035–1040. *Wien*. 1898.)

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Conduction, cont'd.

—— *Potassium Nitrate.*

Kramers (J. C. H.) Sur la conductibilité électrique du nitrate de potassium. *5 plates.* (Archives néerlandaises. sér. 2, v. 1, pp. 455–494. *La Haye*, 1898.)

—— *Powders.*

Streints (Franz). Ueber die elektrische Leitfähigkeit von gepressten Pulvern. (Annalen der Physik. ser 4, v. 3, (v. 308), pp. 1–19. *Leipzig*, 1900.)

Muraoka (H.), *and* **Tamuru** (T.) Ueber die Veränderung der electrischen Leitungsfähigkeit eines Pulvers durch Induction. (Annalen d. Physik. ser. 4, v. 7, pp. 554–561. *Leipzig*, 1902.)

—— *Solutions.*

Fritsch (C.) *Ueber das electrolytische Leitvermögen fester Lösungen. [*Erlangen.*] *Leipzig: J. A. Barth*, (*A. Meiner*), 1896, 17 pp. 8°.

Rueping (H.) *1. Beiträge zur Kenntnis der Ketomenthylsäure und Menthoximsäure. II. Leitfähigkeit wässerigalkoholischer Salzlösungen. *Erlangen: F. Junge*, 1897. 38 pp., 1 l. 8°.

Kohlrausch (F.), *and* **Holborn** (L.) Das Leitvermögen der Elektrolyte insbesondere der Lösungen. Methoden, Resultate, und chemische Anwendungen. *Leipzig: B. G. Teubner*, 1898. xvi, 211 pp., 1 diag. 8°.

MacGregor (James Gordon), *and* **Archibald** (E. H.) On the calculation of the conductivity of aqueous solutions containing two electrolytes with no common ion. (Philos. mag. and jour. of science. ser. 5, v. 45, pp. 151–157. *London*, 1898.)

Hoffmeister ([K. A.] H.) Ueber Stromleitung iu gemischten Salzlösungen. *Berlin: G. Schade*, 1899. 29 pp., 1 l. 8°.

Kohlrausch (Friedrich), *and* **Maltby** (Margaret E.) Das elektrische Leitvermögen wässriger Lösungen von Alkali Chloriden und Nitraten. (Kön-preuss. Akad. d. Wissensch. Sitzungsb. 1899, pp. 665-671. *Berlin*, 1899.)

Kohlrausch (Friedrich). Über das elektrische Leitvermögen von Lösungen der Alkali-Jodate und eine Formel zur Berechnung von Leitvermögen. (Kön-preuss. Akad. d. Wissensch. Sitzungsb. 1900, pp. 1002–1008. *Berlin*, 1900.)

Ven (E. van der). Sur le transport des liquides par le courant électrique. (Archives néerlandaises. sér. 2, v. 6, pp. 127–132. *La Haye*, 1901.)

Eversheim (P.) Bestimmung der Leitfähigkeit und Dielektricitätsconstanten von Lösungsmitteln und deren Lösungen in ihrer Abhängigkeit von der Temperatur bis über den kritischen Punkt. (Annalen d. Physik. ser. 4, v. 8, pp. 539–567. *Leipzig*, 1902.)

Wolf (Hans). Beitrag zur Kenntnis der Leitfähigkeiten gemischter Lösungen von Elektrolyten. (Ztschr. f. physikal. Chemie. v. 40, pp. 222–255. *Leipzig*, 1902.)

—— *Water.*

Cohn (Emil), *and* **Zeeman** (Pieter). Observations sur la propagation de vibrations electriques dans l'eau. (Archives néerlandaises. sér. 2, v. 7, p. 1–9. *La Haye*, 1902.)

CURRENTS.

See also *ante* ELECTRODYNAMICS and ELECTRO-MAGNETISM.

Ohm (George Simon). Théorie mathématique des courants électriques. Traduction, préface et notes de J. M. Gaugoin. *Paris: La Hachette et Cie.*, 1860. 2 p. l., 202 pp., 1 l. 8°.

Ohm (G. S.) The galvanic circuit investigated mathematically; translated by Wm. Francis, with a preface by the ed., T. D. Lockwood. *New York*, 1891. (Van Nostrand Science Series No. 102. 24°.)

Neumann (Franz). Vorlesungen über elektrische Ströme [1864–5]; hrsg. von K. Vondermühl. x, 308 pp. *Leipzig: B. G. Teubner*, 1884. 8°. (Vorles. über mathem. Phys. Heft 3.)

Van der Weyde (P. H.) The comparative dangers of alternate vs. direct electric currents. n. p. [1888?] 1 p. l., 8 pp. 8°.

Brown (H. P.) The comparative danger to life of the alternating and continuous electrical currents. *New York*, cop. 1889. pm. 12°.

Bedell (F.), *and* **Crehore** (A. C.) Derivation and discussion of the general solution for the current flowing in a circuit containing resistance, self-induction and capacity, with any impressed electromotive-force. [*Chicago*, 1892.] pm. 8°.

Heinke (C.) Die Hauptbegriffe der Gleich- und Wechselstromtechnik unter Benutzung mechanischer Hilfsvorstellungen. *Stuttgart: F. Enke*, 1898. pp. 121–254. 8°. (Samm. elektrotechn. Vort. Bd. 1. Hft. 5–6.)

Lampa (Anton.) Über einen Beugungsversuch mit elektrischen Wellen. Illus. (Kais. Akad. d. Wissensch. Math.-naturwiss. Classe. Sitzungsb. v. 108. pt. 2a, pp. 786–802. *Wien*, 1899.)

Mewes (Rudolf). Das ohmsche Gesetz nach der Vibrationstheorie. (Elektrochemische Zeitschr. Jahrg. 6, pp. 155–158. *Berlin*, 1899.)

Blondel (André). Sur l'inscription directe des courants variables. (Congrès internat. de physique. 1900. Rapports. v. 3, pp. 264–295. *Paris*, 1900.)

Bragstad (O. S.) Ueber die Wellenform des Drehstromes. (Elektrotechnische Zeitschr. Jahrg. 21, pp. 252–254. *Berlin*, 1900.)

Discussion on the relative advantages of alternating and continuous current for a general supply of electricity, especially with regard to interference with other interests. (Jour. Inst. of Elec. Engineers. v. 30, pp. 3–26. *London*, 1900.)

—— (Transac. Amer. Inst. Electr. Engineers. v. 17, pp. 517–542. *New York*, 1901.)

Johnson (K. R.) Ueber den Oeffnungsstrom in einem verzweigten Stromkreise. (Annalen d. Physik. ser. 4, v. 2, pp. 495–504. *Leipzig*, 1900.)

Potier (A.) Sur l'énergie des courants. (L'éclairage électr. v. 22, pp. 81–83. *Paris*, 1900.)

Benischke (Gustav). Die Abhängigkeit der Eisenverluste von der Kurvenform. (Elektrotech. Ztsch. Jahrg. 22, pp. 52–57. *Berlin*, 1901.)

Mathy (E.) Application des signes de Weierstrass à l'étude de l'énergie potentielle de deux courants circulaires parallèles d'intensité un. (Jour. de phys. théor. & appli. sér. 3, v. 10, pp. 33–36. *Paris*, 1901.)

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Currents, cont'd.

Stark (J.) Das Ohmsche Gesetz. (Naturwissensch. Rundschau. Jahrg. 16. pp. 597–600. *Braunschweig*, 1901.)

Vilar (H. Sire de). La dualite en électrotechnique. (L'éclair. électr. v. 27, pp. 252–259; 278–285. v. 28, pp. 236–250. *Paris*, 1901.)

Warrilow (W. E.) The prospects of single-phase supply. (Electr. Engineer. v. 34 (n. s., v. 28). pp. 271–272. *London*, 1901.)

Chertemps (Ch.) Valeur et mesure de la puissance des courants électriques industriels. (Bull. technol. 1902, pp. 633–656. *Paris*, 1902.)

Christiansen (C.) Unipolare elektriske Strömme i en Elektrolyt. (Oversigt over det kongelige danske Videnskab. Selsk. Forhandl. 1901, no. 6, pp. 205–219. *Köbenhavn*, 1902.)

Day (William S.) An experiment relating to the application of Lagrange's equations of motion to electric currents. (Phys. Rev. v. 15, pp. 154–162. *Lancaster, Pa.*, 1902.)

Garbasso (Antonio). Su la derivazione delle correnti a regime variabile. (Atti dell' assoc. elettrotecn. italiana. v. 6. pp. 131–136. *Torino*, 1902.)

Lenner (R.) Il limitatore di corrente. (Atti dell' assoc. elettrotecn. italiana. v. 6, pp. 203–214. *Torino*, 1902.)

Wortruba (R.) Der elektrische Strom, seine Gesetze und Wirkungen in der Strombahn . . . *Berlin: H. Costenoble*, 1902. 4 p. l., 162 pp., 3 l. 2. ed. 8°. (In his Lehrbücher der Electrotechnik . . . *Berlin*, 1902. 8°. Bd. 1.)

Interrupters.

Tesla's (Mr.) circuit interrupters. (Electrical World. *New York*, 1898. 4°. v. 32, pp. 181–184.)

Arsonval (d'). Interrupteur électrolytique. (Jour de physique théor. & appli. sér. 3, v. 8, pp. 206–209. *Paris*, 1899.)

Child (Charles T.) Some experiments with the Caldwell interrupter. (Electrical Rev. v. 34, pp. 295. *New York*, 1899.)

Lamotte ( ). Interrupteurs à liquides Wehnelt et Caldwell. Construction, théorie, applications. (L'éclairage électr. v. 21, pp. 41–46; 127–137; 180–184; 250–256. *Paris*, 1899.)

Perot (A.) Les applications du nouvel interrupteur électrique à la production des rayons X et à la télegraphie sans fil. (Bull. Soc. sci. indust. de Marseille. année 27, pp. 54–60. *Marseille*, 1899.)

Simon (Hermann Th.) Ueber einen neuen Flüssigkeitsunterbrecher. (Annalen d. Physik u. Chemie. n. s., v. 68, pp. 866–868. *Leipzig*, 1899.)

Sergniat (Ph. Tardent de). Interrupteurs électrolytiques pour bobines d'induction. (Bull. tech. (Génie civil.) Année 1, pp. 200–218. *Paris*, 1899.)

Bailey (Benj. F.) Electrolytic interrupters. (Electr. World and Engineer. v. 36, pp. 207–210. *New York*, 1900.)

Johnson (K. R.) Ueber den Extrastrom beim Unterbrechen eines elektrischen Stromkreises. (Annalen d. Physik. ser. 4, v. 2, pp. 179–185. *Leipzig*, 1900.)

Kallir (Ludwig). Ueber den Verlauf des Unterbrechungsfunkens im Wechselstromkreise bei Metallelektroden, insbesondere bei Quecksilberelektroden. (Annalen d. Physik. ser. 4, v. 2, pp. 250–265. *Leipzig*, 1900.)

Pizzuti (M.) Un inconveniente degli interruttori automatici. (Atti della assoc. elettrotecn. italiana. v. 4, pp. 1–4. *Torino*, 1900.)

Ruhmer (Ernst). Über den Einfluss der Selbstinduktion auf die Unterbrechungszahl beim Simonschen Loch-Unterbrecher. (Physikalische Zeitschr. Jahrg. 1, pp. 211–212. *Leipzig*, 1900.)

—— Die Unregelmässigkeit der Unterbrechungen bei den neueren Flüssigkeitsunterbrechern. (Elektrotechnische Ztschr. Jahrg. 21, pp. 331–334. *Berlin*, 1900.)

Telltales for circuit-breakers. (Sci. and Industry. v. 5, pp. 204–206. *Scranton, Pa.*, 1900.)

Guillaume (Jacques). Freins dynamométriques à actions magnétiques et électromagnétiques. (L'éclairage électr. v. 29, pp. 189–196; 265–276. *Paris*, 1901.)

Pierce (George). Elektrische Brechungsexponenten gemessen mit einem abgeänderten Radiomikrometer. (Physik. Ztschr. Jahrg. 2, pp. 405–409. *Leipzig*, 1901.)

Neuer (Ein) Quecksilberstrahl-Unterbrecher. (Elektrotechn. Ztschr. Jahrg. 23, pp. 107–108. *Berlin*, 1902.)

Roman (Joseph Martin). High tension Circuit-Safeguards. (Electr. World and Engineer. v. 40, pp. 247–251. *New York*, 1902.)

Taylor (A. H.) A carbon electrolytic interrupter. (Phys. Rev. v. 14, pp. 118–121. (*Lancaster, Pa.*, 1902.)

Wehnelt Interrupter.

Wehnelt (A.) Ein elektrolytischer Stromunterbrecher. (Elektrotechnische Zeitschrift. *Berlin*, 1899. f°. v. 20, pp. 76–78.)

Corbino (Orso Mario). Sull' interruttore di Wehnelt. (R. accad. d. Lincei. Rendic. classe di sci. fis. ser. 5, v. 8, pt. 2, pp. 352–359. *Roma*, 1899.)

—— Correnti dissimetriche ottenute nel secondario di un trasformatore, interrompendo nel primario la corrente con l'apparecchio di Wehnelt. *Illus.* (R. accad. d. Lincei. Rendic. classe di sci. fis. ser. 5, v. 8, pt. 2, pp. 359–365. *Roma*, 1899.)

Elektrolytische Stromunterbrecher von Dr. A. Wehnelt. (Elektrochemische Ztschr. Jahrg. 6, pp. 69–74. *Berlin*, 1899.)

Federico (R.), *and* **Baccei** (P.) Sull' interruttore elettrolitico di Wehnelt. (R. accad. d. Lincei. Rendic. classe di sci. fis. ser. 5, v. 8, pt. 2, pp. 347–352. *Roma*, 1899.)

Humphreys (W. J.) The Wehnelt electrolytic break. (Physical Rev. v. 9, pp. 30–40. *Lancaster*, 1899.)

Lecher (Ernst). Einige Versuche mit dem Wehnelt-Interruptor. *Illus.* (Kais. Akad. d. Wissensch. Math.-naturwiss. Classe. Sitzungso. v. 108, pt. 2a, pp. 677–683. *Wien*, 1899.)

Rossi (Andrea Giulio). Alcune osservazioni sull' interruttore elettrolitico di Wehnelt. (R. accad. d. scienze. Atti. v. 34, pp. 666–677. *Torino*, 1899.)

Digitized by Google

Interrupters, cont'd.

—— Expériences sur l'interrupteur de Wehnelt. (L'éclairage électrique. v. 20, pp. 22–25. *Paris*, 1899.)

Ruhmer (Ernst). Beitrag zur Theorie des Wehnelt'schen Unterbrechers. (Elektrotechnische Ztschr. Jahrg. 20, pp. 456–458. *Berlin*, 1899.)

—— Ueber den Einfluss der Selbstinduktion auf die Unterbrechungszahl beim Wehnelt'schen Unterbrecher. (Elektrotechnische Zeitschr. Jahrg. 20, pp. 786–787. *Berlin*, 1899.)

Simon (Hermann Th.) Das Wirkungsgesetz des Wehnelt-Unterbrechers. (Annalen d. Physik u. Chemie. n. s., v. 68, pp. 273–293. *Leipzig*, 1899.)

Swinton (A. A. Campbell). Exhibition and description of Wehnelt's current-interrupter. (Physical Soc. of London. Proc. v. 16, pp. 419–424. *London*, 1899.)

Thomson (Elihu). The Wehnelt electrolytic current interrupter. (Electrical Engineer. *New York*, 1899. 4°. v. 27, pp. 239–240.)

Voller (A.), *and* **Walter** (B.) Ueber die Vorgänge im Wehnelt'schen elektrolytischen Unterbrecher. (Annalen der Physik u. Chemie. v. 304. (n. s., 68.) pp. 526–552. *Leipzig*, 1899.)

Wehnelt (A.) Ein elektrolytischer Stromunterbrecher. (Annalen der Physik u. Chemie. n. s., v. 68, pp. 233–272. *Leipzig*, 1899.)

Corbino (Orso Mario). Correnti indotte in un trasformatore per l'interruzione della corrente primaria con l'apparecchio di Wehnelt. *Illus.* (R. accad. d. Lincei. Rendic. classe di sci. fis. ser. 5, v. 9, pt. 1, pp 102–107. *Roma*, 1900.)

—— Sull' interruttore di Wehnelt. (Atti dell' assoc. elettrotecn. italiana. v. 4, pp. 11–26. *Torino*, 1900.)

Lampa (Anton). Eine Studie über Wehnelt'schen Unterbrecher. (Kais. Akad. d. Wissensch. Math.-naturwiss. Classe. Sitzungsb. v. 109, pt. 2a, pp. 891–901. *Wien*, 1900.)

Rothé (Edmund). Sur l'interrupteur Wehnelt. Existence d'un régime stable. Influence sur l'éclairage des lampes. (Jour. de physique. sér. 3, v. 9, pp. 95–99. *Paris*, 1900.)

Ruhmer (E.) Über den Widerstand des Wehnelt-Unterbrechers. (Physikalische Ztschr. Jahrg. 1, pp. 303–305. *Leipzig*, 1900.)

Codd (M. A.) Some experiments on the Wehnelt interrupter. (Electr. Rev. v. 49, pp. 787–789. *London*, 1901.)

Lampa (Anton). Über Stromunterbrechung, mit besonderer Berücksichtigung des Wehnelt'schen Unterbrechers. *Illus.* (Kais. Akad. d. Wissensch. Math.-naturwiss. Classe. Sitzungsb. v. 110, pt. 2a, pp. 891–906. *Wien*, 1901.)

Misuno (T.) The function of self-induction in Wehnelt's interrupter. (Lond., Edinb. & Dublin Philosoph. Maga. & Jour. of Sci. v. 51 (ser. 6, v. 1), pp. 246–250. *London* 1901.)

Klupathy (Eugen). Zur Theorie des Wehnelt-unterbrechers. (Annalen d. Physik. ser. 4, v. 9, pp. 147–163. *Leipzig*, 1902.)

Photographs.

Gates (Elmer). Electrographs or pictures of itself made by the electric current without a camera. (Photo. Times. v. 31, pp. 561–564. *New York*, 1899.)

Hotchkiss (H. J.) A portable apparatus for photographing curves of two variable currents simultaneously. 2 pl. (Physical Rev. v. 8, pp. 152–160. *Lancaster, Pa.*, 1899.)

Hospitalier (É.) Sur quelques applications de la méthode stroboscopique à l'étude des courants alternatifs. L'arcoscope et l'ondographe. (Bull. Soc. internat. d. électriciens. sér. 2, v. 1, pp. 339–359. *Paris*, 1901.)

Weinhold (A.) Demonstration und Photographie von Wechselstromkurven mittels der Braun'schen Röhre. (Elektrotech. Ztschr. Jahrg. 22, pp. 409–411. *Berlin*, 1901.)

Hospitalier (E.) Ondographe. (Jour. de physique théor. sér. 4, v. 1, pp. 409–417. *Paris*, 1902.)

Potential.

Tumlirz (O.) Das Potential und seine Anwendung zuder Erklärung der elektrischen Erscheinungen. . . *Wien*, 1884. 12°.
(Elektro.-tech. Bibl., Bd. 23.)

Child (G. D.) On the fall of potential at the surface of a metal when exposed to the discharging action of the X-rays. (Physical Rev. *New York*, 1898. 8°. v. 6, pp. 285–296.)

Mebius (Clas Albert). Potentialbestämningar i ett vakuumrör. 24 pp. *6 illus.* (Kongl. svenska vetenskaps-akad. Bihang till handlingar, v. 24, pt. 1, no. 3. *Stockholm*, 1898.)

Behrend (B. A.) Ueber den Spannungsabfall bei Wechselstromgeneratoren. (Elektrotechnische Zeitschr. Jahrg. 20, pp. 839–840. *Berlin*, 1899.)

Hasenöhrl (Fritz.) Über ein Problem der Potentialtheorie. (Kais. Akad. d. Wissensch. Math.-naturwiss. Classe. Sitzungsb. v. 108, pt. 2a, pp. 1667–1693. *Wien*, 1899.)

Patterson (G. W.) Experimentelle und theoretische Untersuchung über das Selbstpotential. (Annalen der Physik u. Chemie. n. s., v. 69, pp. 34–65. *Leipzig*, 1899.)

Teege (H.) Ueber einen auffälligen Werth der Potentialdifferenz auf einem stromdurchflossenen Leiter. (Elektrotechnische Zeitschr. Jahrg. 20, pp. 856–857. *Berlin*, 1899.)

Winship (Walter Edwin). * Zur Theorie der Potentialgefälle in verdünnten Lösungen. . . *Berlin: G. Schade* [1899?]. 62 pp., 1 l. 8°.

Campetti (Adolfo). Sulla differenza di potenziale tra un sale solido e una sua soluzione. (R. accad. d. Lincei. Rendic. classe di sci. fis. ser. 5, v. 9, pt. 2, pp. 27–31. *Roma*, 1900.)

Guilbert (C. F.) Expression de la puissance, avec la méthode des imaginaires de M. Steinmetz. (L'éclair. électr. v. 22, pp. 361–370. *Paris*, 1900.)

Hobson (Ernest William). On Green's function for a circular disc, with applications to electrostatic problems. *3 illus.* (Cambridge philos. soc. Trans. v. 18, pp. 277–201. *Cambridge*, 1900.)

Johnson (K. R.) Constanz oder Inconstanz des Funkenpotentiales. (Annalen d. Physik. ser. 4, v. 3, pp. 461–470. *Leipzig*, 1900.)

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Potential, cont'd.

Marx (Erich). Ueber den Potentialfall und die Dissociation in Flammengasen. (Annalen d. Physik. ser. 4, v. 2, pp. 768-797. *Leipzig*, 1900.)

Ostwald (W.) Über die absoluten Potentiale der Metalle nebst Bemerkungen über Normalelektroden. (Ztschr. f. physikal. Chemie. v. 35, pp. 333-339. *Leipzig*, 1900.)

Schmidt (G. C.) Über den Einfluss der Temperatur auf das Potentialgefälle in verdünnten Gasen. (Physikalische Zeitschr. Jahrg. 1, pp. 251-254. *Göttingen*, 1900.)

Almy (John E.) On a diminution of the potential difference between the electrodes of a vacuum tube, produced by a magnetic field at the cathode. (Proc. of the Camb. Philosoph. Soc. v. 11, pp. 183-190. *Cambridge*, 1901.)

Haber (F.) Bemerkungen über Elektrodenpotentiale. (Ztschr. f. Elektrochemie. Jahrg. 7, pp. 1043-1053. *Halle a. S.*, 1901.)

Hasslinger (Rudolf v.) Über Potential differenzen in Flammengasen und einigen festen Elektrolyten. (Kais. Akad. d. Wisssensch. Math.-naturwiss. Classe. Sitzungsb. v. 110, pt. 2a, pp. 696-705. *Wien*, 1901.)

Weber (Heinrich). Beiträge zur Theorie des Potentials galvanischer Ströme. (In: Abhandlungen aus den Gebieten der Mathematik, Physik, Chemie... *Braunschweig*, 1901. 8°. pp. 87-125.)

Beaulard (F.) Sur la différence de potentiel et l'amortissement de l'étincelle électrique à caractère oscillatoire. (Annales de l'univ. de Grenoble. v. 14, pp. 105-112. *Paris*, 1902.)

Carpini (Camillo). Determinazione del potenziale elettro-statico mediante la deformazione d'una superficie liquida. (R. accad. d. Lincei. Rendic. classe d. sci. fis. ser. 5, v. 11, pt. 1, pp. 65-69. *Roma*, 1902.)

Crémieu (V.) Méthode de réglage automatique du potential d'un condensateur relais electrostatique. (Jour. de phys. théor. & appl. sér. 4, v. 1, pp. 583-588. *Paris*, 1902.)

Henning (F.) Vergleichende Messungen des elektrischen Potentiales mittels der Flamme und eines aus radioactiver Substanz bestehenden Collectors. (Annalen d. Physik. ser. 4, v. 7, pp. 893-904. *Leipzig*, 1902.)

Hesehus (N. A.) Die gemeinsame Dimenzionalität des elektrischen Potentials und der Oberflächenspannung. (Physik. Ztschr. Jahrg. 3, pp. 561-565. *Leipzig*, 1902.)

Nernst (W.), *and* **Lessing** (A.) Ueber die Wanderung galvanischer Polarisation durch Platin- und Paladiumplatten. (Nachrichten v. d. Königl. Gesellsch. d. Wiss. Math.-Phys. Klasse. 1902. Heft 2, pp. 146-160. *Göttingen*, 1902.)

Pomey (J. B.) Oscillations propres des réseaux. (L'éclair. électr. v. 31, pp. 197-200. *Paris*, 1902.)

Stark (J.) Über die Beziehung zwischen Kathodenfall und Stromstärke. (Physik. Ztschr. Jahrg. 3, pp. 274-275. *Leipzig*, 1902.)

Resistance.

Schroeder van der Kolk (Henricus Guilielmus). *Specimen physicum de methodis quibus resistentia galvanica determinatur, metallorum imprimis... 4 p.l., xi-xiv, 1l., 128 pp., 1 diagr. *Trajecti ad Rhenum, Kemink et filius, typogr.*, 1860. 8°.

Jenkin (F.) Report on the new unit of electrical resistance proposed . . . by the committee on electrical standards appointed in 1861 by the British Association. (In: Brit. Assoc. for the Adv. of Sci. Reports of the comm. on electrical standards. *London*, 1873. 8°. pp. 191-199.)

Barus (C.), *and* **Strouhal** (V.) The relation between electrical resistance and density, when varying with the temper of steel. *n.t.p.* 1886. pm. 8°.

Barus (Carl). The electrical resistance of stressed glass. [*Washington, D.C.*, 1889.] pp. 339-351. 8°.

Burstall (F. W.) On the use of bare wire for resistance-coils. (Phys. Soc. of Lond. Proc. v. xiv, p. 286.)

Dewar (James), *and* **Fleming** (J. A.) Electrical resistivity of bismuth at the temperature of liquid air. (Roy. Soc. Proc. v. 60, 1896, pp. 72-75.)

—— —— Electrical resistivity of pure mercury at the temperature of liquid air. (Roy. Soc. Proc. v. 60, 1896, pp. 76-81.)

Beattie (J. Carruthers). On the electric resistance of cobalt, iron, and nickel films in magnetic fields of various strengths. ills. (Philos. Mag. and Jour. of Science. ser. 5, v. 45, pp. 243-253. *London*, 1898.)

Hasenöhrl (Fritz). Über den Rückstand und die Leitfähigkeit von Paraffin und Schwefel. (Kais. Akad. d. Wissensch. Math.-naturwiss. Classe. Sitzungsb. v. 107, pt. 2a, pp. 1035-1040. *Wien*, 1898.)

Tripier (H.) Sur la détermination des resistances électriques d'un circuit pour traction. (L'éclairage électrique. *Paris*, 1898. 4°. v. 17, pp. 505-508.)

Barton (Edwin H.) The equivalent resistance and inductance of a wire to an oscillatory discharge. (Physical Soc. of Lond. Proc. v. 16, pp. 409-419. *London*, 1899.)

Gressman (George W.) The electrical resistance of lead amalgams at low temperatures. (Physical Rev. v. 9, pp. 20-29. *Lancaster, Pa.*, 1899.)

Sxily (Coloman de). Sur la variation de la résistivité électrique des métaux et de leurs alliages due à la torsion. (Jour. de Physique théor. & appli. sér. 3, v. 8, pp. 329-332. *Paris*, 1899.)

Villemontée (G. de). Résistance électrique et fluidité. *Paris: Gauthier-Villars* [1899?]. 180 pp. 12°.
(Encyclopédie scientifique des aide-mémoire. Section de l'ingénieur.)

Willows (R. S.) On the variation of the resistance of certain amalgams with temperature. (Lond., Edinb. & Dub. Philosoph. Maga. & Jour. of Sci. ser. 5, v. 4°, pp. 433-456. *London*, 1899.)

Aubel (Edm. van). Sur les résistances electriques des métaux purs. pl. (Archives néerlandaises. ser. 2, v. 5, pp. 49-55. *La Haye*, 1900.)

Feldmann (C.), *and* **Herzog** (J.) Ueber den Widerstand eiserner Wechselstromleiter. (Elektrotech. Ztsch. Jahrg. 21, pp. 844-847. *Berlin*, 1900.)

Gans (Albert F.) Ohm's law applied to the calculation of drop in constant current circuits. (Stevens Inst. Indicator. v. 17, pp. 403-412. *Hoboken*, 1900.)

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Resistance, cont'd.

Harrington (W. E.) Cast weld and surface contact bonds. (Jour. Franklin Inst. v. 149, pp. 401–419. *Philadelphia*, 1900.)

Merritt (Ernest). Der Wechselstromwiderstand von Eisendrähten. (Physikalische Ztschr. Jahrg. 1, pp. 261–262. *Leipzig*, 1900.)

Ottone (G.) Systemi elettro-pneumatici di freni continui. (Atti dell' assoc. elettrotecn. italiana. v. 4, pp. 57–74. *Torino*, 1900.)

Chevallier (H.) Sur les variations permanentes de résistance électrique des fils d'alliage platine-argent soumis à des variations de température. (Mém. Soc. d. sci. phys. & naturelles de Bordeaux. sér. 6, v. 5, pp. 385–460. *Paris*, 1901.)

—— —— (Jour de Phys. sér. 4, v. 1, pp. 157–163. *Paris*, 1902.)

Mewes (Rudolf). Die Tesla-Dewar-Flemmingschen Versuche über Widerstandverminderung durch Kälte und deren theoretische Prüfung. (Elektrochem. Ztschr. Jahrg. 7, pp. 210–224. *Berlin*, 1901.)

Rood (Ogden N.) Experiments on high electrical resistance. (Amer. Jour of Sci. ser. 4, v. 10, pp. 285–294; v. 12, pp. 91–97. *New Haven*, 1900–01.)

Simpson (George C.) On the electrical resistance of bismuth to alternating currents in a strong magnetic field. (Lond., Edinb., & Dub. Philosoph. Maga. ser. 6, v. 2, pp. 300–311. *London*, 1901.)

Wimperis (H. E.) Méthode de détermination de la résistance à la traction. (L'éclair. électr. v. 29, pp. 330–334. *Paris*, 1901.)

Aubel (Edmond van). Sur la résistance électrique des corps peu conducteurs aux très basses températures. (Comptes rendus hebd. d. séances de l'Acad. d. sci. v. 135, pp. 456–457. *Paris*, 1902.)

Barrett (W. F.) On the increase of electrical resistivity caused by alloying iron with various elements, and the specific heat of those elements. (Proc. Roy. Soc. v. 69, pp. 480–485. *London*, 1902.)

Dinwiddie (W. Walter). A cell for measuring the electrical resistance of liquids. (Phys. Rev. v. 15, pp. 237–238. *Lancaster, Pa.*, 1902.)

Erlacher (Georg J.) Ueber die Stromdichte in Widerständen. (Elektrotech. Ztschr. Jahrg. 23, pp. 404–406. *Berlin*, 1902.)

Gott (Arthur E.) Starting resistances. (Jour. Inst. of Electr. Engineers. v. 31, pp. 1219–1230. *London*, 1902.)

Patterson (J.) On the change of the electrical resistance of metals when placed in a magnetic field. (Lond., Edinb. & Dub. Philosoph. Maga. ser. 6, v. 3, pp. 643–656. *London*, 1902.)

Harrison (E. Philip). On the variation with temperature of the thermo-electromotive force, and of the electric resistance of nickel, iron, and copper, between the temperatures of – 200° and + 1050°. (Lond., Edinb. and Dub. Philosoph. Maga. ser. 6, v. 3, pp. 177–195. *London*, 1902.)

—— ——(Physical Society of London. Proceedings. v. 18, pp. 57–76. *London*, 1902.)

Rood (Ogden N.) On the electrical resistance of glass, quartz, mica, ebonite and gutta-percha. (Amer. Journ. of Sci. ser. 4, v. 14 (v. 164), pp. 161–165. *New Haven*, 1902.)

Thomson (J. J.) On the effect of a transverse magnetic field on metallic resistance. (Lond., Edinb. and Dub. Maga. ser. 6, v. 3, pp. 353–356. *London*, 1902.)

Weber (L.), *and* **Roberjot** (H.) Nouvelles méthodes pour la mesure de la résistance intérieure des piles. (L'éclair. électr. v. 31, pp. 201–207. *Paris*, 1902.)

Williams (W.) On the temperature variation of the electrical resistances of pure metals, and allied matters. (Lond., Edinb. and Dub. Philosoph. Maga. ser. 6, v. 3, pp. 515–532. *London*, 1902.)

—— —— (Physical Society of London. Proceedings. v. 18, pt. 2, pp. 196–214. *London*, 1902.)

Transformers and Converters.

Uppenborn (F.) History of the transformer: translated from the German. (4) 60 pp., ill. *London, New York: E. & F. N. Spon*, 1889. 12°.

Fleming (J. A.) The alternate current transformer. *London*, 1892. 2 v. 8°. (Electrician series.)

Ford (Arthur Hillyer). A complete test of modern American transformers of moderate capacities. (In: University of Wisconsin. Bulletin. Engineering series. *Madison*. 8°. v. 2, no. 1, pp. 1–88.) 1896.

General Electric Company. Use and abuse of transformers. [*Schenectady, N. Y.*:] *Gen. Elect. Co.*, 1897. 34 pp. 4°.

Feldmann (E. P.) Die elektrischen Transformationsmethoden. (Sammlung elektrotechnischer Vorträge. *Stuttgart*, 1898. 8°. v. 1, pp. 321–350.)

General Electric Company. Transformer design and operation. *n. t. p.* [*Schenectady, N. Y.*:] *Gen. Elect. Co.* [1898]. 38 pp. 4°.

Goldsborough (Winder Elwell). Transformer economy. (Electrical World. *New York*, 1898. F°. v. 31, pp. 781–784.)

Kapp (Gisbert). Theorie der Umformer. (Elektrotechnische Zeitschr. *Berlin*, 1898. F°. Jährg. 19, pp. 621–622; 643–644; 655–657.)

Paine (Ellery B.), *and* **Gough** (Harry E.) The construction of a 150,000 volt transformer. (Electrical World. *New York*, 1898. F°. v. 32, pp. 63–65.)

Rochefort (M. O.) Interrupteurs électriques des transformateurs à haute tension pour courants continus. (Mémoires & compte rendu d. trav. de la soc. ingénieurs civils de France. Année 51, v. 2, pp. 496–505. *Paris*, 1898.)

Steinmetz (C. P.) The converter. (Electrical World. *New York*, 1898. F°. v. 32, pp. 650–653; 682–683.)

Thompson (Silvanus P.) Rotatory converters. (Electrical Engineer. *London*, 1898. F°. (v. 28) n. s., v. 22, pp. 626–629; 685–687; 712–714.)

White (W. F.) Alternating current transformers —from the station manager's viewpoint. (Electrical World. *New York*, 1898. v. 32, pp. 39–40.)

—— —— (Electrical Engineer. v. 26, pp. 36; 61–62.)

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Transformers, cont'd.

Baum (Frank G.) A new transformer diagram. (Physical Rev. *New York*, 1899. 8°. v. 8, pp. 95–111)

Bibbins (J. R.) A new method of determining ratio of transformation. (Electr. World and Engineer. v. 34, pp. 376. *New York*, 1899.)

Campetti (Adolfo). Sull 'uso dell' alluminio per la trasformazione di correnti alternate in continue. (R. Accad. d. Scienze. Atti, v. 34, pp. 174–181. *Torino*, 1899.)

General Electric Company. Type H oil transformers. [*Schenectady*,] 1899. 1 p. l., 5–30 pp., 1 l. 12°.

Guilbert (C. F.) Machines dynamo électriques. Transformateurs. (Éclair. électrique. v. 19, pp. 46–52; v. 22, pp. 166–171. *Paris*, 1899.)

Jackson (D. C.) Inductive loads (arc lamps and motors) on alternating current transformers. (Electrical World. *New York*, 1899. F°. v. 33, pp. 145–146.)

Parshall (H. F.), *and* **Hobart** (H. M.) The design of rotary converters. (Engineering. v. 68, pp. 388–391; 448–449; 450; 517–518; 519; 620–621; 721–723; 783–784; v. 69, pp. 197–198; 241–244; 499–501; 535–536. *London*, 1899.)

Perkins (J. H.) Transformer testing for central stations. (Wisconsin Engineer. v. 3, pp. 190–197. *Madison, Wis.*, 1899.)

Pichelmayer (Karl). Untersuchungen an einem Umformer. (Elektrotechnische Zeitschr. Jahrg. 20, pp. 697–701. *Berlin*, 1899.)

Robb (William Lispenard). Rotary transformers and storage batteries as related to long distance transmission. (Electr. Rev. v. 34, pp. 344–345. *New York*, 1899.)

Scott (Ernest Kilburn). High-speed continuous-current transformers. (Elect. Rev. v. 35, pp. 17–18. *New York*, 1899.)

Steinmetz (Charles Proteus). Der rotierende Umformer. 38 pp. (Samml. Elektrotechnischer Vorträge. v. 2, Heft 1. *Stuttgart*, 1899.)

Thompson (Silvanus P.) Rotary converters. (Jour. Institut. of Electrical Engineers. v. 27, pp. 651–689. *London*, 1899.)

Volta ( ). Les convertisseurs rotatifs. Leur but, leur fonctionnement. (Génie civil. v. 34, pp. 297–300. *Paris*, 1899.)

Wilson (Ernest). A rotary converter. (Jour. Inst. of Electr. Engineers. v. 28, pp. 367–388. *London*, 1899.)

Buffa (Mario). Trasformazione della corrente alternata in continua. 1 pl. (Rivista di artiglieria e genio. Annata 17, v. 1, pp. 351–389. *Roma*, 1900.)

General Electric Company. Core type transformers for three-wire secondary service. *Schenectady, N. Y.: Gen. Elect. Co.*, 1900. 11 pp. 12°.

Goldschmidt (Rudolf). Ueber den Leerlauf von Drehstrom-Transformatoren. (Elektrotech. Ztsch. Jahrg. 21, pp. 991–992. *Berlin*, 1900.)

Heinke (C.) Ueber Wellenstromerreger. (Annalen der Physik. ser. 4, v. 1 (v. 306), pp. 326–351; 441–461. *Leipzig*, 1900.)

Herrmann (J.) Drehfeldumformer und Drehfeldtransformator. (Elektrotechnische Zeitschr. Jahrg. 21, pp. 60–61. *Berlin*, 1900.)

Quick (R. W.) The rotary phase converter. (Electr. World and Engineer. v. 35, pp. 14–17.) *New York*, 1900.)

Transformers for Niagara Falls Power Company. (Electr. World and Engineer. v. 35, pp. 227–228. *New York*, 1900.)

Wilson (Ernest). A two-phase rotary converter and a note on the regulation of rotary converters. 1 pl. (Jour. Inst. of Electr. Engineers. v. 29, pp. 409–435. *London*, 1900.)

Blondel (A.) Théorie graphique de la régulation des convertisseurs rotatifs. (L'éclair. électr. v. 29, pp. 206–217; 283–293. *Paris*, 1901.)

Blondin (J.) Transformateurs électrolytiques de courants alternatifs en courants continus. Système Pollak. (Bull. Soc. internat. d. électriciens. sér. 2, v. 1, pp. 323–338. *Paris*, 1901.)

Bragstad (O. S.) Graphische und experimentelle Bestimmung des Spannungsabfalles in Transformatoren. (Elektrotech. Ztsch. Jahrg. 22, pp. 821–824. *Berlin*, 1901.)

Colles (George W.) Rotary transformers: their history, theory and characteristics. (Jour. Franklin Inst. v. 151, pp. 207–235; 263–282; 341–368; 429–445; v. 152, pp. 12–26. *Philadelphia*, 1901.)

—— Same. Separate. 105 pp. 8°.

Dettmar (G.) Erläuterungen zu den Normalien zur Prüfung von elektrischen Maschinen und Transformatoren. (Elektrotechnische Ztschr. Jahrg. 22, pp. 499–506. *Berlin*, 1901.)

Eichberg (Friedrich). Ueber die Transformatoreigenschaften der Gleichstromarmatur. (Elektrotech. Ztsch. Jahrg. 22, pp. 563–564. *Berlin*, 1901.)

Entwurf zu Normalien zur Prüfung von elektrischen Maschinen und Transformatoren. (Elektrotechnische Ztschr. Jahrg. 22, pp. 477–480. *Berlin*, 1901.)

Heitmann (E.), *and* **Currie** (Wm.) Generators and transformers for the Bay Counties Power Co., California. (Engineering News. v. 46, pp. 382–384. *New York*, 1901.)

Kennelly (A. E.) The reactance drop and reactance factor of transformers. (Electr. World and Engineer. v. 38, pp. 92–94. *New York*, 1901.)

Kuhlmann (Karl). Kreisdiagramme für specielle Falle des allgemeinen Transformators. (Elektrotechnische Ztschr. Jahrg. 22, pp. 341–344. *Berlin*, 1901.)

Meyer (Hans Sigismund). Ueber die Berechnung rotirender Umformer. (Elektrotechnische Ztschr. Jahrg. 22, pp. 295–299. *Berlin*, 1901.)

Mitkiewicz (W.) Ein Aluminiumstromrichter für Wechselstrom und seine Anwendung. (Physikal. Ztsch. Jahrg. 2, pp. 747–750. *Leipzig*, 1901.)

Motor generators vs. rotary converters. (Electr. World and Engineer. v. 38, pp. 460–462. *New York*, 1901.)

Perreau (E.) Étude géométrique du condensateur transformateur. (L'éclair. électr. v. 27, pp. 185–187. *Paris*, 1901.)

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Transformers, cont'd.

—— Étude géométrique du condensateur transformateur. (Jour. de phys. théor. & appli. sér. 3, v. 10, pp. 332–336. *Paris*, 1901.)

Reyval (J.) Transformateur rotatif de 100 kilowatts de la Compagnie internationale d' électricité de Liège. (L'éclair. electr. v. 27, pp. 403–407. *Paris*, 1901.)

Rushmore (David B.) The design and action of the rotary converter. (Engineering Maga. v. 22, pp 414–422. *New York*, 1901.)

Ryan (Harris J.) The transformer for measuring large direct currents. (Sibley Jour. of Mechanical Engineering. v. 15, pp. 351–365. *Ithaca*, 1901.)

Scholtes (Ph.) Schaltvorrichtung zur Vermeidung des Leerlaufstromes unbelasteter Transformatoren. (Elektrotechnische Ztschr. Jahrg. 22, pp. 361–363. *Berlin*, 1901.)

Täuber (K. P.) Apparatenanlage in der Centrale und Umformerstation "Pierre de Plan" des Elektricitätswerkes der Stadt Lausanne. (Elektrotech. Ztsch. Jahrg. 22, pp. 825–829. *Berlin*, 1901.)

Townsend (Fitzhugh). Eddy current losses in transformers. [With discussion.] (Transac. Amer. Inst. Elect. Engineers. v. 17, pp. 319–334. *New York*, 1901.)

Villard (P.) Transformateur à haut voltage à subvolteur cathodique. (Jour. de phys. théor. & appl. sér. 3, v. 10, pp. 28–32. *Paris*, 1901.)

Warrilow (W. E.) Some up-to-date transformers. (Electr. Engineer. v. 34 (n. s., v. 28), pp. 583–586; 625–627; 654–657. *London*, 1901.)

Woodhouse (W. B.) The design of transformers. (Electrician. v. 46, pp. 625–627; 687–689. *London*, 1901.)

Ballard (Fred. W.) Testing the efficiency of transformers. (Engineer. v. 39, pp. 631–632. *Cleveland*, 1902.)

Braun (Rudolf). Wesen und Bedeutung der Drehumformer. (Schillings Jour. f. Gasbeleuchtung u. Wasserversorgung. Jahrg. 45, pp. 72–76. *München*, 1902.)

Dettmar (G.) Erläuterungen zu den Aenderungen und Ergänzungen der Normalien für elektrische Maschinen und Transformatoren. (Electrotechn. Ztschr. Jahrg. 23, pp. 489–491. *Berlin*, 1902.)

Drude (P.) Zur Construction von Teslatransformatoren. Schwingungsdauer und Selbstinduction von Drahtspulen. 1 pl. (Annalen d. Physik. ser. 4, v. 9, pp. 293–339. *Leipzig*, 1902.)

König (Emil). Beiträge zu dem Problem der elektrochemischen Umformung von Wechselstrom in Gleichstrom durch Aluminiumelektrolytzellen. (Elektrotechn. Ztschr. Jahrg. 23, pp. 474–476. *Berlin*, 1902.)

Rushmore (David B.) The operation of the rotary converter. (Engineering Maga. v. 22, pp. 538–552. *New York*, 1902.)

Schmidt (J.) Der Hochspannungs-Fernschalter und seine Verwendung. (Elektrotechn. Ztschr. Jahrg. 23, pp. 513–515; 539–543. *Berlin*, 1902.)

Schuchardt (R. F.) Transformer testing by central station companies. (Electr. World and Engineer. v. 39, pp. 855–858. *New York*, 1902.)

Seidner (M.) The synchronous converter as voltage controller. (Electr. World and Engineer. v. 39, pp. 761–763; 814–815. *New York*, 1902.)

Vincent (A.) Nouveau convertisseur universel de M. Maurice Leblanc. (L'éclair électr. v. 30, pp. 29–38; 55–61. *Paris*, 1902.)

Ziehl (Emil). Verminderung der Erdströme bei mit Wechselstrom betriebenen Ueberlandbahnen mit Schienenrückleitung. (Elektrotechn. Ztschr. Jahrg. 23, pp. 145–147. *Berlin*, 1902.)

Alternating Currents.

Westinghouse Electric Co. (The) Pittsburg, Pa. The alternating system. [*New York: E. D. Slater*,] 1888. 64 pp. obl. f°.

Blakesley (T. H.) Papers on alternating currents of electricity . . . 2 ed. *London*, 1889. 12°. (Specialists' series.)

Kapp (G.) Alternate-current machinery. *New York*, 1899. 24°. (Van Nostrand science series. no. 66.)

Bedell (F.), *and* **Crehore** (A. C.) Alternating currents; an analytical and graphical treatment for students and engineers. *New York*, 1893. 8°.

Bedell (F.), **Miller** (K. B.), *and* **Wagner** (G. F.) Irregularities in alternate-current curves. n. p., 1893. pm. 8°.

Kapp (G.) Alternating currents of electricity; their generation, measurement, distribution and application, with an introduction by W. Stanley, jr. *New York*, 1893. 16°.

Loppe (F.), *and* **Bouquet** (R.) Traité theorique et pratique des courants alternatifs industriels. Ouvrage en 2 volumes. *Paris: E. Bernard & Co.*, 1894–96. obl 8°.

Forbes (G.) Alternating and interrupted electric currents; being based upon three lectures delivered to the members of the Royal Institution. 98, 111 pp. ill. *London: Biggs & Co.* [1896.] 12°.

Hay (Alfred). The principles of alternate-current working. *London: Biggs & Co.* [1897.] xi, 1 l., 276, ii, iv. pp. 12°.

Loppé (F.) Les transformateurs de tension à courants alternatifs. 206 pp., 1 l. *Paris: Mason et Cie.* [1897.] 12°. (Encycl. scient. des aide-mémoire. Sect. de l'ing.)

Maycock (W. P.) The alternating-current circuit. An introductory and non-mathematical book for engineers and students. *London: Whittaker & Co.*, 1897. viii, 102 pp. 12°.

Ruehlmann (R.) Grundzüge der Wechselstrom-Technik. Eine gemeinfassliche Darstellung der Grundlagen der Elektrotechnik der Wechsel- und Mehrphasenströme für Ingenieure, Architekten [etc.] . . . Zugleich Ergänzungsband zu: Grundzüge der Electrotechnik der Starkstrome. *Leipzig: O. Leiner*, 1897. viii, 359 pp., 1 diagr., 8°.

Tuma (Josef). Ein Phasenmessapparat für Wechselströme. (Kais. Akad. d. Wissensch. Math.-naturwiss. Classe. Sitzungsb. v. 106, pt. 2a, pp. 521–525. *Wien*, 1897.)

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Alternating Currents, cont'd.

Davis (Charles Henry), *and* **Forbes** (Howard C.) The application of alternating currents to electric traction. (Engineering Maga. *New York*, 1898. 4°. v. 15, pp. 811–822.)

Feldmann (C. P.) Zur Benennung der charakteristischen Grössen des Wechselstromkreises. (Elektrotechnische Zeitschr. *Berlin*, 1898. v. 19, pp. 698–700.)

Hanappe (S.) Résumé de la methode graphique pour l'étude des courants alternatifs: application aux machines à courants alternatifs. (Rev. Universelle d. Mines; de la Métallurgie d. trav. pub. d. sci. et d. Arts appliqués a l'industrie. v. 44, pp. 127–187; v. 45, pp. 73–114; 137–198; v. 46, pp. 243–272. *Liège*, 1898–'99.)

Kinsley (Carl). Determination of the frequency of alternating currents. *1 illus.* (Philos. mag. and jour. of science. ser. 5, v. 45, pp. 339–347. *London*, 1898.)

Rossi (Andrea Giulio). Su talune proprietà di un sistema di due correnti alternative difasate qualunque, ed applicazione ad un apparecchio di misura e ad un motore a campo Ferraris. (R. accad. d. scienze. Atti, v. 33, pp. 647–658. *Torino*, 1898.)

Still (A.) Alternating currents of electricity and the theory of transformers . . *London: Whittaker & Co*, 1898. viii, 184 pp. 12°. (Specialist's Series.)

Wippermann (Emerich). Über Wechselstromcurven bei Anwendung von Aluminiumelektroden. *Illus.* (Kais. Akad. d. Wissensch. Math.-naturwiss. Classe. Sitzungsb. v. 107, pt. 2a, pp. 839–847. *Wien*, 1898.)

Boulanger (J.) Théorie et applications des courants alternatifs. (Rev. du génie militaire. v. 17, pp. 513–534; v. 18, pp. 51–79; 231–249. *Paris*, 1899.)

Ebert (Hermann). Die in Entladungsröhren umgesetzten Werthe an elektrischer Wechselstromenergie. (Annalen d. Physik u. Chemie. n. s., v. 67, pp. 608–629. *Leipzig*, 1899.)

Feldmann (Clarence P.), *and* **Herzog** (Josef). Ueber Stromvertheilung in Wechselstromnetzen. (Elektrotechnische. Zeitschr. Jahrg. 20, pp. 780–783. *Berlin*, 1899.)

Heinke (C.) Ueber Auffassung und Darstellung der Vorgänge im Wechselstromtransformator. (Elektrotechnische Zeitschr. *Berlin*, 1899. f°. v. 20, pp. 175–178; 191–192; 205–205.)

Kapp (Gisbert). Ueber Kabeldurchschläge. (Elektrotechnische Zeitschr. Jahrg. 20, pp. 896–900. *Berlin*, 1899.)

Kinsley (Carl). A method of measuring the frequency of alternating currents. (Physical Rev. v. 8, pp. 244–249. *Lancaster, Pa.*, 1899.)

Merritt (Ernest). The resistance offered by iron wires to alternating currents. (Physical Rev. v. 9, pp. 294–299. *Lancaster, Pa.*, 1899.)

Smith (Harrison Willard). On a method of measuring the frequency of alternating currents. *Illus.* (Technology quarterly, v. 12, pp. 180-183. *Boston*, 1899.)

Steinmetz (Charles Proteus). Symbolische Darstellung doppelperiodischer Vektorprodukte und allgemeiner Wechselstromwellen. (Elektrotechnische Zeitschr. Jahrg. 20, pp. 882–885; 900–903. *Berlin*, 1899.)

Berg (E. J.) Compensation of line drop in alternating current circuit. (Electr. World and Engineer. v. 35, pp. 60–63. *New York*, 1900.)

Breisig (F.) Die graphische Darstellung des Verlaufes von Wechselströmen längs langer Leitungen. (Elektrotechnische Zeitschr. Jahrg. 21, pp. 87–92. *Berlin*, 1900.)

Breisig (F.) Réprésentation graphique des courants alternatifs parcourant une longue canalisation. (L'éclairage électr. v. 25, pp. 156–160. *Paris*, 1900.)

Brisse (E.) Réprésentation graphique des variables efficaces des courants alternatifs en fonction des courbes périodiques. (L'éclair. électr. v. 25, pp. 488–492. *Paris*, 1900.)

Des Coudres (Th.) Eine direkte Methode für Wechselstromanalyse. (Elektrotech. Ztsch. Jahrg. 51, pp. 752–755; 770–772. *Berlin*, 1900.)

Fischer-Hinnen (J.) Elektrische Bremsen für Wechselströme. (Elektrotech. Ztsch. Jahrg. 21, pp. 767–770. *Berlin*, 1900.)

Grassi (Guido). Sulla misura della dispersione magnetica nei trasformatori a corrente alternata. (Atti dell' assoc. elettrotecn. italiana. v. 4, pp. 191–201. *Torino*, 1900.)

Hopps (B.) The so-called "skin effect" or the increased resistance of iron wires to alternating currents. (Electrician. v. 45, pp. 920. *London*, 1900.)

Jackson (Dugald C.) Fundamental ideas of alternating currents. (Electr. World and Engineer. v. 35, pp. 399–400. *New York*, 1900.)

—— —— (Sci. and Industry. v. 5. pp. 271–278. *Scranton, Pa.*, 1900.)

Methodes approchées pour la solution de quelques problèmes sur les courants alternatifs. (L'éclairage électr. v. 25, pp. 76–83. *Paris*, 1900.)

Poole (Cecil P.) The drop in alternating-current wires. (Electr. World and Engineer. v. 35, pp. 285–287. *New York*, 1900.)

Ritter (Wilhelm). Anordnungen zur Erkennung und Ausgleichung der Periodendifferenz zweier Wechselstromkreise. (Elektrotechnische Zeitschr. Jahrg. 21, pp. 7–40. *Berlin*, 1900.)

Townsend (Fitzhugh). Alternating current laboratory experiments and commercial tests. (School of Mines Quar. v. 5, pp. 16–64. *Boston*, 1900.)

Barbillion (L.) Production et emploi des courants alternatifs. [*Paris: G. Carré & C. Naud*,] 1901. 103 pp. 12°. (Scientia . . . Série physico-mathématique, no 11.)

Campbell (Albert). On test-room methods of alternate current measurement. (Jour. Inst. of Electr. Engineers. v. 30, pp. 889–907. *London*, 1901.)

Carrier (Willis H.) The impulse transformer method of demonstrating the wave form of alternating currents. (Sibley Jour. of Engineering. v. 16, pp. 21–27. *Ithaca*, 1901.)

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Alternating Currents, cont'd.

Corbino (O. M.) Correnti rapidamente variabili nei circuiti derivati. (Atti dell' assoc. elettrotecn. italiana. v. 5, pp. 49–56. *Torino*, 1901.)

Franke (Rudolf). Der Kurven-Indikator zur Bestimmung des zeitlichen Verlaufs von Wechselstromkurven und anderer periodischer elektrischer Vorgänge. (Ztschr. f. Instrumentenkunde. Jahrg. 21, pp. 11–20. *Berlin*, 1901.)

Grassi (Guido). Su alcune proprietà delle correnti alternate. (La rivista tecnica. Anno 1, pp. 145–157. *Torino*, 1901.)

Hanappe (S.) Application de la méthode graphique pour l'étude des courants alternatifs à quelques cas spéciaux de résonance—Rupture de l'isolant des câbles armés. (Rev. univers. d. mines, de la métallurgie. v. 55, pp. 306–353. *Liège*, 1901.)

Manzetti (R.) Di un nuovo instrumento per la misura della frequenza delle correnti alternate. *Illus.* (R. accad. d. Lincei. Rendic. classe d. sci. fis. ser. 5, v. 10, pt. 1, pp. 157–163. *Roma*, 1901.)

Mordey (W. M.) Capacity in alternate current working. [Discussion.] 1 pl. (Jour. Inst. of Electr. Engineers. v. 30, pp. 364–391. *London*, 1901.)

—— —— (Electrician. v. 46, pp. 467–469; 510–513. *London*, 1901.)

—— —— (Engineering. v. 71, pp. 93–94; 125–126. *London*, 1901.)

Reyval (J.) Le matériel à courants alternatifs des ateliers du Creusot. (L'éclair. électr. v. 27, pp. 121–129. *Paris*, 1901.)

Schenkel (M.) Geometrische Oerter an Wechselstromdiagrammen. (Elektrotechn. Ztschr. Jahrg. 22, pp. 1043–1045. *Berlin*, 1901.)

Simple lessons in alternating currents. (Sci. and Industry. v. 6, pp. 225–228; 311–316; 351–356; 402–405; 458–462; 569–573; v. 7, pp. 12–15; 68–74. *Scranton, Pa.*, 1901–'02.)

Townsend (Fitzhugh). A new method of tracing alternating current curves. [With discussion.] (Transac. Amer. Inst. of Electr. Engineers. v. 17, pp. 5–23. *New York*, 1901.)

Weber (Robert). Zur Sichtbarmachung der Deformation von Wechselströmen. (Annalen d. Physik. ser. 4, v. 6, pp. 565–569. *Leipzig*, 1901.)

Andriessen (H.) Ladungsströme bei Wechselstrom. (Annalen d. Physik. ser. 4, v. 7, pp. 369–389. *Leipzig*, 1902.)

Arnò (Riccardo). Sistema perfezionato di contatore di energia elettrica per sistemi a corrente alternativa. (Atti dell' assoc. elettrotecn. italiana. v. 5, pp. 379–384. *Torino*, 1901.)

Crook (Zeno E.) Demagnetizing effects of electromagnetically compensated alternating currents. (Amer. jour. of sci. ser. 4, v. 14, (v. 164) pp. 133–146. *New Haven*, 1902.)

Franchetti (A.) Proprietà di alcuni voltametri ad elettrodi di alluminio sottoposti a correnti alternate. (La rivista tecnica. anno 1, pp. 425–430. *Torino*, 1901.)

—— Capacità di polarizzazione e dissipazione di energia di alcuni voltametri sottoposti a correnti alternate. 1 pl. (La rivista tecnica. anno 1, pp. 677–700. *Torino*, 1902.)

Gerschun (Al.) Über gleichgerichteten Wechselstrom. (Physikal. Ztschr. Jahrg. 3, pp. 249–254. *Leipzig*, 1902.)

Marcher (Thomas). Experimentelle Untersuchungen auf dem Wechselstromgebiete. (Samml. elektrotechnischer Vorträge. v. 3, (Heft 7) pp. 241–270. *Stuttgart*, 1902.)

Riccia (A. della). Sur l'action des courants d'échange entre alternateurs en parallèles. (L'éclair. électr. v. 30, pp. 413–419. *Paris*, 1902.)

Rossi (A. G.) Studio teorico di una coppia di circuiti induttivi in parallelo su corrente alternativa. (La rivista tecnica. Anno 2, pp. 21–32; 143–161; 193–209; 303–313. *Torino*, 1902.)

Simple lessons in alternating currents. (Science and Industry. v. 6, pp. 225–228; 311–316; 351–356; 402–405; 458–462; 569–573; v. 7, pp. 12–15; 68–74. *Scranton, Pa.*, 1901–'02.)

Stanley (William). The beginnings of alternating-current engineering. (Electr. Rev. v. 40, pp. 223–226. *New York*, 1902.)

Continuous Currents.

Proposto (C. del). Spannungsregulirung in Dreileiternetzen für Gleichstrom. (Elektrotechnische Zeitschr. *Berlin*, 1898. F°. Jahrg. 19, pp. 825–826.)

Koch (Franz). Ueber ein neues System der Entnahme von Gleichstrom aus Wechselstromnetzen. (Elektrotechnische Ztschr. Jahrg. 22, pp. 853–854. *Berlin*, 1901.)

Ruehlmann (Richard). Grundzüge der Gleichstrom-Technik . . . *Leipzig: O. Leiner*, 1901. xiv, il., 626 pp. 2. ed. 8°.

Rothert (Alexandre). Perfectionnements aux enroulements à courant continu. (L'éclairage électr. v. 26, pp. 467–473. *Paris*, 1901.)

Convection Currents.

Zeleny (John). On convection currents and on the fall of potential at the electrodes in conduction produced by Röntgen rays. (Physical Rev. v. 8, pp. 161–173. *Lancaster, Pa.*, 1899.)

Bénad (Henri). Étude expérimentale des courants de convection dans une nappe liquide. Régime permanent: tourbillons cellulaires. (Jour. de physique théor. & appli. sér. 3, v. 9, pp. 513–524. *Paris*, 1900.)

Crémieu (V.) Convection électrique et courants ouverts. (Jour. de phys. théor. & appli. sér. 3, v. 10, pp. 453–471 *Paris*, 1901.)

—— Répétition des expériences de M. Rouland, relatives à la "convection électrique." (Annales de chimie & de physique. sér. 7, v. 24, pp. 299–320. *Paris*, 1901.)

Pender (Harold). On the magnetic effect of electrical convection. (Phys. Rev. v. 13, pp. 203–233. *Lancaster, Pa.*, 1901.)

Schuster (Arthur). On electric inertia and the inertia of electric convection. (Lond., Edinb. and Dublin Maga. and Jour. of Sci. v. 51, (ser. 6, v. 1), pp. 227–238. *London*, 1901.)

—— —— (Electrician. v. 46, pp. 892–895. *London*, 1901.)

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Earth Currents.

See also, below, *Earth Currents;* and *Electrolysis by Earth Currents.*

Schultze (Rudolf). *Ueber unpolarisierbare Erdplatten. . . . *Halle a S.: Buchdruck. d. Waisenhauses*, 1898. 48 pp. 8°.

Wedmore (E. Basil). Earth currents derived from distributing systems. [Discussion.] (Jour. Inst. of Electr. Engineers. v. 31, pp. 576–610. *London*, 1902.)

Foucault Currents.

Klemencic (Ignaz.) Über die Wärmeentwicklung durch Foucault'sche Ströme bei sehr schnellen Schwingungen. *Illus.* (Kais. Akad. d. Wissensch. Math.-naturwiss. Classe. Sitzungsb. v. 108, pt. 2a, pp 568–576. *Wien*, 1899.)

High Potential Currents.

Tesla (N.) Experiments with alternate currents of high potential and high frequency ; a lecture. . . . *New York*, 1892. 16°.

Spies ([L. E.] P.) *Ueber die Wärmewirkung des ungeschlossenen Hochfrequenzstromes. [*Kiel.*] *Berlin: W. Gronau*, 1896. 2 p.l., 46 pp., 1 l. 8°.

Duloug (J.) Expériences avec les courants de haute fréquence. (La nature. *Paris*, 1898. 4°. Année 26, Sém. 2, pp. 313–314.)

Laffargue (J.) Appareil à grande tension et à haute fréquence: production d'effluves; expériences faites au centenaire du Conservatoire des arts et métiers. (Nature. *Paris*, 1898. 4°. Année 26, pp. 103–106.)

Abraham (H.) Sur la décomposition d'un courant à haut potentiel en une série de decharges disruptives. (Jour. de physique théorique et appliquée. Sér. 3, v. 8, pp. 366–373. *Paris*, 1899.)

Ebert (H.) Glimmlichterscheinungen bei hochfrequentem Wechselstrome. (Annalen d. Physik u. Chemie. n.s., v. 69, pp. 372–397. *Leipzig*, 1899.)

Kowaleff (Peter v.) Ableitungsschraubklemme für Hochspannungsleitungen. (Elektrotechnische Zeitschr. Jahrg. 20, p. 249. *Berlin*, 1899.)

Tesla (Nikola). Some experiments in Tesla's laboratory with currents of high potential and high frequency. (Electrical Rev. v. 34, pp. 193–197 ; 204. *New York*, 1899.)

Bertram (H. A) Ueber moderne Hochspannungsapparate. (Elektrotechnische Ztschr. Jahrg. 21, pp. 667–675. *Berlin*, 1900.)

Friese (Rob. M.) Die Weltausstellung in Paris, 1900. Die Starkstromtechnik. (Ztschr. d. Vereines deut. Ingen. v. 44, pp. 901–905 ; 1599–1606 ; v. 45 ; pp. 437–444 ; 516–520 ; 1087–1095 ; 1849–1857 ; v. 46, pp. 115–123 ; 493–501 ; 557–568. *Berlin*, 1900–'02.)

Rückblick (Ein) auf die Entwickelung der Starkstromelektrotechnik innerhalb der letzten drei Jahre. (Dingler's polytech. Jour. Jahrg. 81, v. 315, pp. 709–714 ; 731–737. *Stuttgart*, 1900.)

Abbott (Arthur V.) Electrical oscillations of high frequency. (Jour. Western Soc. of Engineers. v. 6, pp. 385–401. *Chicago*, 1901.)

Schnetzler (K.) Über die Grenzen der Hochspannung bei elektrotechischen Anlagen. (Schilling's Jour. f. Gasbeleuchtung. Jahrg. 44, pp. 250–254. *München*, 1901.)

Semenza (Guido). Perfezionamenti alle valvole per alta tensione. (Atti dell' assoc. elettrotecnica italiana. v. 5, pp. 168–181. *Torino*, 1901.)

Simon (C.) Sur l'établissement des lignes à courant alternatif à haute intensité. (Cong. internat. de l'acétylène. 3d. 1900. Rapports, etc. pp. 177–185. *Paris*, 1901.)

Steinmetz (Charles P.) Theoretical investigation of some oscillations of extremely high potential in alternating high potential transmissions. (Electr. Rev. v. 39. pp. 449–450 ; 477–480 ; 505–506. *New York*, 1901.)

Nies (J. D.) Grounding of high potential systems. (Electr. World and Engineer. v. 39, pp. 639–642. *New York*, 1902.)

Rosenberg (E.) Elektrische Starkstrom-Technik. . . . *Leipzig: O. Leiner*, 1902. vii, 296 pp., 5 pl. 8°.

Polyphase Currents.

Hospitalier (E.) Polyphased alternating currents. [With Appendix A.: The Lauffen-Frankfort transmission, and Appendix B.: Multiphase transmission and distribution of electric energy, by A. Reckenzaun.] *London: H. Alabaster, Gatehouse & Co.* [189—?] 2 p l., 84 pp. 8°.

Rodet (J.), *and* **Busquet** ( ). Les courants polyphasés. *Paris*, 1893. 8°.

Scott (Charles F.) Polyphase transmission. [A paper read. . . . March 1, 1894. . . .] *Buffalo: Matthews-Northrup Co.* [1894?] 2 p. l., 24 pp. 8°. (Westinghouse Electric & Mfg. Co., catalogue, No. 227.)

Thompson (S. P.) Polyphase electric currents and alternate current motors. *London*, 1895. 8°. (Finsbury techn. man.)

Rodet (J.) Distribution de l'energie par courants polyphasés. *Paris: Gauthier-Villars* 1898. 1 l., viii, 338 pp., 3 l. 8°.

Arnò (Riccardo). Alcune considerazioni sulla trasformazione dei sistemi trifasi in bifasi. (Atti dell' assoc. elettrotecn. italiana. v. 4, pp. 5–7. *Torino*, 1900.)

Gin (G.) Note pour servir au calcul des transmissions d'énergie par courants triphasés. (Bull. tech. 1900, pp. 453–464. *Paris*, 1900.)

Guye (C. E.) Les courants de capacité dans les lignes polyphasées symétriques et leur représentation graphique. (L'Éclairage électrique. v. 23, pp. 408–415. *Paris*, 1900.)

Karapetoff (Wlad.) Ueber mehrphasige Stromsysteme bei ungleichmässiger Belastung. (Samml. Elektrotechnischer Vorträge. v. 2, pp. 235–330. *Stuttgart*, 1900.)

Potier (A.) Sur les courants polyphasés. (Congrès internat. de physique. 1900. Rapports. v. 3, pp. 197–263. *Paris*, 1900.)

Arnò (Riccardo). Sull' impiego del Wattometro-fasometro per sistemi trifasi ad alta tensione. (Atti dell' assoc. elettrotecn. ital. v. 5, pp. 385–388. *Torino*, 1901.)

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Polyphase Currents, cont'd.

Eborall (A. C.) Polyphase electric working. (Jour. Soc. of Arts. v. 49, pp. 749–757; 761–768; 773–782; 785–792; 797–808; 809–818; 821–831; 833–844. *London*, 1901.)

Galmozzi (Italo). Sur le traction électrique par courants polyphasés. (L'éclair. electr. v. 26, pp. 473–480. *Paris*, 1901.)

Latour (Marius). Sur la non-existence de la supériorité signalée des courants triphasés dans les transports d'énergie. (L'éclair. électr. v. 26, pp. 250–252. *Paris*, 1901.)

Morton (W. B.) On the propagation of polyphase currents along a number of parallel wires. (Lond., Edinb. and Dub. Philosoph. Maga. and Jour. of Sci. ser. 6, v. 1, pp. 563–571. *London*, 1901.)

Teichmüller (J.) Canalisations élastiques à courants triphasés. (L'éclair. électr. v. 30, pp. 203–212; 238–246. *Paris*, 1902.)

Vagrant Currents.

See, also, below, *Electrolysis by Earth Currents;* and, above, *Earth Currents.*

Mascart (Eleuthère Élie Nicolas.) Perturbations magnétiques produits par les tramways électriques à l'observatoire de Nice. (Archives néerlandaises, sér. 2, v. 6, pp. 550–554. *La Haye*, 1901.)

Larsen (Absalon), *and* **Faber** (S. A.) Messungen von vagabundierenden Strömen in Gas- und Wasserröhren. (Schilling's Jour. f. Gasbeleuchtung. Jahrg. 45, pp. 231–233. *München*, 1902.)

ELECTRONS.

Larmor (J.) On the Theory of Moving Electrons and Electric Charges. (Phys. Soc. of Lond. Proc.) Vol. xiv., p. 303.

Drude (P.) Zur Elektronentheorie der Metalle. (Annalen der Physik. ser. 4, v. 1, pp. 566–613; v. 3, pp. 369–402. *Leipzig*, 1900.)

Kaufmann (Walter). Über die Schwingungsamplitude der Elektronen. (Archives néerlandaises. ser. 2, v. 5, pp. 148–151. *La Haye*, 1900.)

—— —— (Physikalische Zeitschrift. Jahrgang 2, pp. 283–284. *Leipzig*, 1901.)

Larmor (Joseph). On the dynamics of a system of electrons or ions: and on the influence of a magnetic field on optical phenomena. (Cambridge philos. soc. Trans. v. 18, pp. 380–407. *Cambridge*, 1900.)

Lieben (Robert v.) Zur Frage nach dem Gewichte der Elektrons. (Physikalische Zeitschr. Jahrg. 1, pp. 237–238. *Göttingen*, 1900.)

Orr (W. McF.) Considerations regarding the theory of electrons. (London, Edinburgh and Dublin Philosoph. Maga. ser. 5, v. 50, pp. 269–278. *London*, 1900.)

Wind (C. H.) Ueber das Feld langsam bewegter Electronen. (Archives néerlandaises. ser. 2, v. 5, pp. 609–635. *La Haye*, 1900.)

Everdingen (E. van), *jr.* Quelques remarques sur l'application de la théorie des electrons à l'augmentation de la résistance électrique dans un champ magnétique et au phénomène de Hall. (Archives néerlandaises, ser. 2, v. 6, pp. 294–302. *La Haye*, 1901.)

Kaufmann (W.) Die Entwickelung des Elektronenbegriffes. (Naturwissensch. Rundschau. Jahrg. 16, pp. 557–559; 569–571. *Braunschweig*, 1901.)

Abraham (M.) Dynamik des Electrons. (Nachrich. v. d. kön. Gesellsch. d. Wissensch. zu Göttingen. Math.-phys. Klasse. 1902, Heft 1, pp. 20–41. *Göttingen*, 1902.)

Fleming (J. A.) The electronic theory of electricity. (Pop. Sci. Monthly. v. 61, pp. 5–23. *New York*, 1902.)

Crookes (Sir William). Radio-activity and the electron theory. (Proc. Roy. Soc. v. 69, pp. 413–422. *London*, 1902.)

—— —— (Electrical Review. v. 40, pp. 496–497. *New York*, 1902.)

Heaviside (Oliver). Note on the size and inertia of elektrons. (Electrician. v. 48, p. 945. *London*, 1902.)

Voigt (W.) Electronenhypothese und Theorie des magnetismus. (Nachrichten v. d. Königl. Gesellschaft d. Wissenschaften zu Göttingen. Mathematphysikal. Klasse. 1901, pp. 169–200. *Göttingen*, 1902.)

Wien (W.) Ueber die Natur der positiven Elektronen. (Annalen d. Physik. ser. 4, v. 9, pp. 660–664. *Leipzig*, 1902.)

INSULATION.

Gray (Thomas). The dielectric strength of insulating materials. (Physical Rev. *New York*, 1898. 8°. v. 7, pp. 199–209.)

Letheule (E.) Influence de l'échauffement et de l'humidité sur la résistance ohmique des isolants. (L'éclairage électrique. *Paris*, 1898. 8°. v. 17, pp. 439–442.)

Kallmann (M.) Isolationscontrolsystem zur directen Anzeige von Stromentweichungen. (Schilling's Jour. f Gasbeleuchtung u. Wasserversorgung. *München*, 1899. F°. Jahrg. 42, pp. 97–99; 111–114.)

Schirner (Ad.) Ein neues Sicherungsmaterial der Allegemeinen Elektricitäts-Gesellschaft. (Elektrotechnische Zeitschr. Jahrg. 20, pp. 575–579. *Berlin*, 1899.)

Wills (A. P.) On the magnetic shielding effect of trilamellar spherical and cylindrical shells. (Physical Rev. v. 9, pp. 193–213. *Lancaster, Pa.*, 1899.)

Feldmann (C.), *and* **Herzog** (J.) Ueber die Schirmwirkung von Eisenröhren. (Elektrotechnische Ztschr. Jahrg. 21, pp. 861–863. *Berlin*, 1900.)

India-rubber in insulation work. (India Rubber World. v. 21, pp. 150–151. *New York*, 1900.)

"**Armacell**" insulating varnish. (Electrical Engineer. v. 33 (n. s., v. 27), pp. 190–191. *London*, 1901.)

Charpentier (P.) Recherche des défauts et controle de l'isolement sur les réseaux électriques. (L'éclairage électr. v. 29, pp. 196–205. *Paris*, 1901.)

Janet (P.) Essais de laboratoire sur la qualité isolante des gants d'électriciens. (Bull. de la soc. internat. d'électriciens. sér. 2, v. 1, pp. 185–187. *Paris*, 1901.)

Digitized by Google

Insulation, cont'd.

Conduit (Le) en asphalte "Howard." (Rev. tech. v. 23, pp. 89–90. *Paris*, 1902.)

O'Gorman (Mervyn). Insulation on cables. (Jour. of the Inst. of Electr. Engineers . . . v. 30, pp. 608–683. *London*, 1901.)

Charpentier (P.) Notes sur les essais d'isolement. (L'éclair. électr. v. 30, pp. 229–238. *Paris*, 1902.)

Pomey (J. B.) Mesure des résistances d'isolement des fils de trôlet. (L'éclairage électr. v. 31, pp. 5–7. *Paris*, 1902.)

Scott-Moncrieff (K. A.) The insulation of conductors of electricity in India. (Jour. Inst. of Electr. Engineers. v. 31, pp. 371–379. *London*, 1902.)

Skinner (Charles Edward). Energy loss in commercial insulating materials when subjected to high potential stress. (Transac. Amer. Inst. of Electr. Engineers. v. 19, pp. 689–704. *New York*, 1902.)

Williamson (R. B.) Transformer protective devices. (Sci. and Industry. v. 7, pp. 177–181. *Scranton, Pa.*, 1902.)

LEAKAGE.

Barton (Edwin Henry). Attenuation of electric waves along a line of negligible leakage. *2 illus.* (Philos. mag. and jour. of science, ser. 5, v. 46, pp. 296–305. *London*, 1898.)

—— —— (Physical Society of London. Proceedings. v. 16, pp. 210–229. *London*, 1899.)

Kelvin (W. Thompson), *baron, and* **Maclean** (Magnus). Leakage from electrified metal plates and points placed above and below uninsulated flames. (Proc. of Roy. Soc. of Edinburgh. *Edinburgh*, 1898. 8°. v. 22, pp. 38–46.)

Beattie (J. C.) Leakage of electricity from charged bodies at moderate temperatures. (Lond., Edinb. and Dublin Philosoph. Maga. and Jour. of Sci. ser. 5, v. 48, pp. 97–106; ser. 6, v. 1, pp. 442–454. *London*, 1899–1901.)

Abraham (A. J.) The earthing of the middle conductor. (Electrical Rev. v. 51, pp. 291. *London*, 1902.)

Leakage (The) of current from buried bare conductors. (Electr. Rev. v. 50, pp. 248–250. *New York*, 1902.)

Skinner (Charles Edward). Energy loss in commercial insulating materials when subjected to high potential stress. (Transac. Amer. Inst. of Electr. Engineers. v. 19, pp. 689–704. *New York*, 1902.)

MEASUREMENT.

Webor (W. E.) Elektrodynamische Maassbestimmungen. (Fuerst. Jabl. Gesellsch. Abh. bei Begründ. il. *Leipzig*, 1846.)

—— Elektrodynamische Maassbestimmungen. *Leipzig*, 1850. 8°.

Secchi (Angelo). Researches on electrical rheometry. (In Smithsonian Inst. Contr., v. 3. 1852.) pl.

British Association for the Advancement of Science. Reports of the committee on electrical standards . . . with a report to the Royal Society on Units of electrical resistance, and the Cantor lectures, by Prof. Jenkin, edited by F. Jenkin. *London: E. & F. N. Spon*, 1873. 2 l., 248 pp., 7 pl., 2 tab. 8°.

Day (R. E.) Exercises in electrical and magnetic measurement, with answers. *London*, 1876. 16°.

Foster (C.) Electrical measurements, (In: Sci. lect. at S. Kensington, v. 1. 1878.)

Blavier (Édouard Ernest). Des grandeurs électriques et de leur mesure en unités absolues. *Paris: Dounod*, 1881. 2 p. l., 588 pp., 1 pl. 8°.

France. *Affaires Étrangères, Ministère des.* Conférence internationale pour la détermination des unités électriques, 1882. *Paris: Imp. Nat.*, 1882. 1 p.l., 163 pp. f°.

—— Same. Second session, 1884. *Paris*, 1884. 121 pp f°.

Kohlrausch (F.) Das elektrische und magnetische absolute Mass-System. pp. 302–326. (In his: Leitfaden der praktischen Physik. *Leipzig*, 1884. 8°.)

Gray (Andrew). Theory and practice of absolute measurements in electricity and magnetism. *London*, 1888–'93. 2 v. in 3. 12°.

Heydweiller (A.) Huelfsbuch fuer die Ausfuehrung elektrischen Messungen. *Leipzig*, 1892. 8°.

Dorn (E.) Vorschläge zu gesetzlichen Bestimmungen über elektrische Maasseinheiten . . . 86 pp., 3 tables. *Berlin: J. Springer*, 1893. 4°.

Naber (H. A.) Standard methods in physics and electricity criticised, and a test for electric meters proposed. *London: G. Tucker*, 1894. 114 pp. 8°.

Price (W. A.) A treatise on the measurement of electrical resistance. *Oxford*, 1894. 8°.

National Academy of Sciences. Standards for electrical measure. Feb. 20, 1895. *Washington*, 1895. 8°.

Campbell (Albert). On the measurement of very large and very small Alternating Currents. (Phys. Soc. of Lond. Proc. Vol. xiv., p. 279)

Gerard (E.) Mesures électriques. Leçons professées à l'Institut électrotechnique Montefiore annexé à l'Université de Liège . . . *Paris: Gauthier-Villars & Fils*, 1896. vii, 457 pp. 8°.

Crapper (Ellis H.) Practical electrical measurements. An introductory manual for young engineers and students. xii, 125 pp. ill. *London: Whittaker & Co.*, 1897. 12°.

Heinke (C.) Wechselstrommessungen und magnetische Messungen. *Leipzig: S. Hirzel*, 1897. xxiii, 300 pp. 8°. (Elektrotechnisches Praktikum. 2. Theil.)

Armagnat (H.) Instruments et méthodes de mesures électriques industrielles. *Paris: G. Carré et C. Naud*, 1898. 2 p. l., ii, 586 pp., 1 l. 8°.

Ayrton (W. E.), *and* **Jones** (J. Viriamu). On a determination of the Ohm made in testing the Lorenz apparatus of the McGill University, Montreal. (Brit. Asso. for the Advancement of Sci. Report of the 67. meeting. *London*, 1898. 8°. pp. 212–218.)

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Measurement, cont'd.

Blondlot (R.) Sur la mesure directe d'une quantité d'électricité en unités électro-magnétiques; application à la construction d'un compteur absolu d'électricité. (Jour. de Physique. *Paris*, 1898. 8°. sér. 3, v. 7, pp. 569–573.)

Hummel (G.) Ueber Motorelektrizitätszähler. (Sammlung elektrotechnischer Vorträge. *Stuttgart*, 1898. 8°. v. 1, pp. 351–366.)

Kallmann (M.) Isolationskontrollsystem zur direkten Anzeige von Stromentweichungen. (Elektrotechnische Zeitschr. *Berlin*, 1898. F°. v. 19, pp. 683–686; 700–702.)

King (R. O.) An absolute measurement of the Thomson effect in copper. *Illus.* (Amer. acad. of arts and sciences. Proc. v. 33, p. 351–379. *Boston*, 1898.)

Peukert (W.) Ueber die Messung hoher elektrischer Spannungen. (Elektrotechnische Zeitschr. *Berlin*, 1898. F°. v. 19, pp. 657–658.)

Rowland (Henry A.) Electrical measurement by alternating currents. *Plate.* (Philos. mag. and jour. of science. ser. 5, v. 45, pp. 66–85. *London*, 1898)

Schiemann (Max.) Wattstundenmessungen an den Betriebsmitteln der Berlin-Charlottenburger Strassenbahn. (Elektrotechnische Zeitschr. *Berlin*, 1898. F°. v. 19, pp. 665–669.)

Schürr (J.) Sur une méthode de mesure de grandes résistances. (Jour. de Physique. *Paris*, 1898. 8°. sér. 3, v. 7, pp. 598–602.)

Schweidler (Egon, *Ritter von.*) Messungen an Flammen- und Tropfelektroden. (Kais. Akad. d. Wissensch. Math.-naturwiss. Classe. Sitzungsb. v. 107, pt. 2a, pp. 225–233. *Wien*, 1898.)

Barbillion (L.) Méthodes de mesure des pouvoirs inducteurs fondées sur les oscillations de Hertz. (Éclairage électrique. v. 19, pp. 326–333. *Paris*, 1899.)

Blondlot (R.) Sur la mesure directe d'une quantité d'électricité en unités électromagnétiques: application à la construction d'un compteur absolu d'électricité. (Annales télégraphiques. v. 25, pp. 20–26. *Paris*, 1899.)

Bowie (Aug. J.) Power factor measurements. (Electr. World & Engineer. v. 34, pp. 898–901. *New York*, 1899.)

Cornu (A.) Unités électriques usitées dans les applications de l'électricité. (Annales télégraphiques. sér. 3, v. 25, pp. 301–330. *Paris*, 1899.)

Ferrini (Rinaldo). Di un nuovo sistema assoluto di misure per le grandezza elettriche e magnetiche. (R. Istituto Lombardo di sci. e lettere. Rendic. ser. 3, v. 32, pp. 1304–1313. *Milano*, 1899.)

Féry ( ) Nouvelle méthode galvanométrique. (L'éclairage électrique. v. 20, pp. 21–22. *Paris*, 1899.)

Guillet (A.) Détermination directe d'un kilohm absolu. (Éclairage électr. v. 20, pp 161–171; 328–336; 376–380. *Paris*, 1899.)

—— —— (Journal de physique. sér. 3, v. 8, pp. 471–477. *Paris*, 1899.)

Heinke (C.) Zur Messung elektrischer Grössen bei periodisch veränderlichen Strömen. (Annalen d. Physik u. Chemie. n. s., v. 69, pp. 612–625. *Leipsig*, 1899.)

Kohlrausch (Dr. W.) Das Gesetz betreffend die elektrischen Maasseinheiten und seine technische und wirtschaftliche Bedeutung. *Berlin: J. Springer*, 1899. 2 p. l., 94 pp. 8°.

Lippmann (G.) Unités electriques absolues. Leçons professées à la Sorbonne . . . Rédigées par M. A. Berget . . . *Paris: G. Carré & C. Naud*, 1899. 2 p l., II, 240 pp. 4°.

Martienssen (H.) Methode und Instrument zur Messung sehr kleiner Inductionscoefficienten. (Annalen der Physik und Chemie. *Leipsig*, 1899. 8°. v. 67, pp. 95–104.)

Montpellier (J. A.), *and* **Aliamet** (M.) Guide pratique de mesures et essais industriels. Instruments et méthodes de mesure: applications. T. 1– *Paris: Vve. C. Dunod*, 1899 1 v. 4°. (Bibl. pratique de l'électricien.)

Niethammer (F.) Zur Messung von Wechselstromeffekten nach der Drei-Voltmeter-Methode. (Elektrotechnische Zeitschr. Jahrg. 20, pp. 701–703. *Berlin*, 1899.)

Pierron (C.) Note sur la détermination du rendement des dynamos à courant continu. (Bull. soc. indust. de Mulhouse. *Mulhouse*, 1899. 8°. v. 69, pp. 48–59.)

Rosa (Edward B.), *and* **Smith** (Arthur W.) A resonance method of measuring energy dissipated in condensers. (Physical Rev. *Lancaster, Pa.*, 1899. 8°. v. 8, pp. 1–20.)

Wachsmuth (R.), *and* **Bergwitz** (K.) Eine Kapazitätsbestimmung mit Hilfe der elektrischen Doppelbrechung. (Physik. Zeitschr. Jahrg. 1, pp. 7–8. *Leipsig*, 1899.)

Amélioration (De l') des noms pour les unités électriques et magnétiques fondamentales. (Bull. Soc. belge d'électriciens. v. 16, pp. 101–104. *Bruxelles*, 1900.)

Barnes (Howard Turner.) Note on the relation of the electrical and mechanical units. (Roy. soc. of Canada. Proc. and trans. ser. 2, v. 6, Trans. sec. 3, pp. 71–73. *Ottawa*, 1900)

Blanc (F.) Eine graphische Methode zur Bestimmung der Strom- und Spannungswerthe in verketteten Mehrphasensystemen. (Elektrotechnische Ztsch. Jahrg. 21, pp. 733–735; 749–752. *Berlin*, 1900.)

Fessenden (Reginald A.) A proposed system of units. (Electr. World & Engineer. v. 35, pp. 282–284. *New York*, 1900.)

Feussner (K.) Das Prüfungsverfahren für Gleichstrom-Elektricitätszähler in der Physikalisch-technischen Reichsanstalt. (Elektrotech. Ztsch. Jahrg. 21, pp. 1035–1038. *Berlin*, 1900.)

Glazebrook (R. T.) Notes on the measurement of some standard resistances. (Phys. Soc. of London. Proc. v. 17, pp. 329–337. *London*, 1900.)

Hill (Wallace M.) Otto Wolf's standard resistances in electrical measurement. (Stevens Inst. Indicator. v. 17, pp. 425–438. *Hoboken*, 1900.)

Potts (L. M.) * Rowland's new method for the measurement of electric absorption and hysteresis and for the detection of short circuits in coils . . . Johns Hopkins University. [n.p., 1900?] 1 p. l., 91, 114 pp., 1 l. 8°.

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Measurement, cont'd.

Rayleigh (3. *baron*), **J. W. Strutt.** Experiments for improving the construction of practical standards for use in electrical measurements. Report of the committee, Lord Rayleigh (chairman.) (Rept. sixty-ninth meeting Brit. Assoc. for the Advancement of Sci. 1899, pp. 240–245. *London*, 1900.)

Rayleigh (3. *baron*), **J. W. Strutt,** *and* **Schuster** (A.) On the determination of the ohm (B. A. unit) in absolute measure. (In: Rayleigh (3. *baron*). J. W. Strutt. Scientific papers. *Cambridge*, 1900. 4°. v. 2, pp. 1–37.)

Rayleigh (3. *baron*), **J. W. Strutt,** *and* **Sidgwick** (Mrs. H.) On the electro-chemical equivalent of silver, and on the absolute electromotive force of Clark cells. (In his Scientific papers. *Cambridge*, 1900. 4°. v. 2., pp. 278–332.)

Saur (K.) Volt-Ampére Watt-Pferdestärken. Zwölf graphische Tabellen über die in der Praxis zumeist vorkommenden Werte und Wirkungsgrade ... Mit erläuterndem Text... *Leipzig: O. Leiner* [1900]. xiii pp., 1 l., 12 diagr. ob. 16°.

Somigliana (Carlo). Sulle unità elettriche e magnetiche. (R. Istituto Lombardo di sci. e lettere. Rendiconti. ser. 2, v. 33. pp. 119–132. *Milano*, 1900.)

Vigneron (E.), *and* **Letheule** (P.) Mesures électriques: essais de laboratoire. *Paris: Gauthier-Villars* [1900?]. 180 pp. 12°. (Encyclopédie scientifique des aide-mémoire. [Section de l'ingénieur.])

Volsberghe (Surmont de). Projet de loi sur les unités électriques. (Bull. mensuel de la soc. belge d'électriciens. v. 17, pp. 245–248. *Bruxelles*, 1900.)

Wolff (Frank A.) The facilities afforded by the office of standard weights and measures for the verification of electrical standards and electrical measuring apparatus. (Science. n. s., v. 11, pp. 403–410. *Lancaster, Pa.*, 1900.)

Addenbrooke (G. L.) Mesures précises des courants alternatifs et polyphasés. (L'éclair. electr. v. 28, pp. 283–292. *Paris*, 1901.)

Campbell (Albert). On testroom methods of alternate-current measurement. (Electr. Engineer. v. 33 [n. s., v. 27.], pp. 840–844. *London*, 1901.)

—— —— Electrician. (v. 47, pp. 256–257; 297–299. *London*, 1901.)

Krohn (Sigvald). Ueber Messungen der elektrischen Ströme in den städtischen Rohrleitungen. (Elektrotechnische Ztschr. Jahrg. 22, pp. 269–271. *Berlin*, 1901.)

Stern (Georg). Leistungsmessung mittels angenäherter Methoden. (Elektrotech. Ztsch. Jahrg. 22, pp. 577–580. *Berlin*, 1901.)

Stern (G.) Ueber Energiemessung an Drehstrommotoren. (Elektrotech. Ztsch. Jahrg. 22, pp. 539–542. *Berlin*, 1901.)

Wien (Max). Ueber die Erzeugung und Messung von Sinusströmen. (Annalen d. Physik. ser. 4, v. 4. pp 425–449. *Leipzig*, 1901.)

Zsakula (M. T.) Gleichstrommessungen. Handbuch für Studierende und Ingenieure... *Berlin: L. Marcus*, 1901. xii, 306 pp. 8°.

Breslauer (Max). Eine Methode zur exakten Messung sehr grosser Phasenverschiebungen. (Elektrotechn. Ztschr. Jahrg. 23, pp. 221–223. *Berlin*, 1902.)

Diesselhorst (H.) Zur ballistischen Methode der Messung von Elektricitätsmengen. (Annalen d. Physik. ser. 4, v. 9, pp. 712-723. *Leipzig*, 1902.)

Görner (J.) Ueber Messungen elektrischer Effekte. (Elektrotechn. Ztschr. Jahrg. 23, pp. 338–340; 362–365. *Berlin*, 1902.)

Hohage (Karl). Anwendung des Elektrometers bei Wechselstrom zur direkten Messung des Effektes, des Stromes und des Phasenwinkels. (Elektrotechn. Ztschr. Jahrg. 23, p. 365. *Berlin*, 1902.)

Jaeger (W.) Die Normalelemente und ihre Anwendung in der elektrischen Messtechnik. *Halle a S.: W. Knapp*, 1902. viii, 131 pp. 8°.

Orlich (E.) Ueber die Definition der Phasenverschiebung (Elektrotechn. Ztsch. Jahrg. 23, pp, 543–544. *Berlin*, 1902.)

P (A.) Eine neue Brückenmethode zur Isolationsmessung von Gleichstromnetzen während des Betriebes. (Dingler's Polytech. Jour. Jahrg. 82, v. 317, pp. 121–125. *Stuttgart*, 1902.)

Reed (John O.), *and* **Guthe** (N. E.) A manual of physical measurements. *Ann Arbor, Mich.: G. Wahr*, 1902. xi, 186 pp., 1 l. 8°.

Sahulka (Johann). Die Masse in der Elektrotechnik. Einführung in das Wechselstromgebiet. (Ztsch. d. oesterr. Ingenier- u. architek.-Vereines. Jahrg. 54, suppl. pp. 9–16. *Wien*, 1902.)

Vigneron (Eug.). Mesures électriques. Essais industriels. *Paris: Gautier-Villars* [1902]. 172 pp. 12°. (Encyclopédie scientifique des aide-mémoire. [Section de l'ingénieur].)

—— *Instruments.*

Hartman (E.) Elektrische und magnetische Messinstrumente nah F. Kohlrausch aus der physikalisch-astronomischen Werkstätte von E. Hartmann in Würzburg. *Würzburg: Stahel*, 1881. 8 pp., 2 pl. 8°.

Wilke (A.) Die elektrischen Mess- und Präcisions-Instrumente sowie die Instrumente zum Studium der elektrostatischen Elektricität, mit besonderer Rücksicht auf ihre Construction. *Wien*, 1883. 16°. (Elektrotechnische Biblio. Bd. 8.)

Fodor (E. D.) Die elektrischen Verbrauchsmesser. Mit 77 Abbildungen. *Wien: A. Hartleben's Verlag*, 1891. xvi, 219 pp. 12°. (Elektro-technische Bibliothek. Bd. 43.)

Frey (Charles P). How to use electrical measurement apparatus. A manual of practical information relating to electrical testing. *New York: E. S. Greeley & Co.* [1891?] 48 pp. 8°.

Hartmann & Braun. Verzeichnis über elektrotechnische Messinstrumente mit Abbildungen von H. & B. elektrotechnische Fabrik in Bockenheim-Frankfurt a. M. *Frankfurt a. M.: Gebrüder Knauer*, 1891. 64 pp. 4°

Swinburne (J.) The measurements of electric currents; electrical measuring instruments. *New York*, 1893. 24°. (Van Nostrand science series. no. 109.)

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Measuring Instruments, cont'd.

Ferranti (S. Z. de.) On the Ferranti electricity meter and its evolution. (Roy. Scottish soc. of arts. Trans. v. 14, p. 52–66. *Edinburgh*, 1895.)

Campbell (Albert). On new instruments for the direct measurement of the frequency of alternating or pulsating electric currents. (Phys. soc. of London. Proc. Vol. xiv., pp. 267, 1896.)

Biscan (Wilhelm). Die electrischen Messinstrumente. iv, 102 pp., 1 pl. *Leipzig: O. Leiner, printer*, 1897. 8°.

Tuma (Josef). Ein Phasenmessinstrument für Wechselströme. (Kais. Akad. d. Wissensch. Math.-naturwiss. Classe. Sitzungsb. v. 106, pt. 2a, pp. 442–452; 521–525. *Wien*, 1897.)

Armagnat (H.) Appareils de mesures. (L'éclairage électrique. *Paris*, 1898. 4°. v. 17, pp. 385–393.)

Onnes (H. Kamerlingh). Un moyen d'éclairer les échelles pour la lecture des angles par la méthode du miroir. *Illus 2 plates.* (Archives néerlandaises, ser. 2, v. 1, pp. 405–410. *La Haye*, 1898.)

Strauss (Herman A.) Galvanometers, ammeters, and voltmeters. (Home Study Maga. v. 3, pp. 11–16. *Scranton, Pa.*, 1898.)

Wettler (A.) Verbesserte Federwaage für Bremsungen von Elektromotoren mit dem Prony-'schen Zaum. (Elektrotechnische Zeitschr. *Berlin*, 1898. F°. v. 19, pp. 658–659.)

Wright (The) discount meter and its use in central station management. (Electrical Engineer. *New York*, 1898. F°. v. 26, pp. 509–510.)

Armagnat (A.) Instruments de mesures. (Éclairage électr. v. 18, pp. 331–336; 407–412; 457–461; 494–498. *Paris*, 1899.)

Barnett (Samuel J.) Quelques méthodes de mesure des potentiels élevés à l'aide d'instruments créés pour de bas potentiels. (Annales télégraphiques. sér. 3, v. 25, pp. 221–224. *Paris*, 1899.)

Campbell (Albert). The magnetic fluxes in meters and other electrical instruments. (Physical Soc. of London. Proc. *London*, 1899. 8°. v. 16, pp. 258–280.)

Carpenter (Hubert V.) A simple device for measuring the frequency of an alternating current. (Electrical World and Engineer. v. 34, pp. 198–199. *New York*, 1899.)

Cauro (J.) Mesures sur le microphone. (Éclairage électrique. v. 19, pp. 295–302; 333–337; 410–416. *Paris*, 1899.)

Commercial instruments for indicating and recording electrical quantities, with a note on the new Aron meter. (Electrical Engineer. *London*, 1899. 4°. n. s., v. 23, pp. 170–172.)

Elster (J), *and* **Geitel** (H.) Über einen Apparat zur Messung der Elektricitätsgestreung in der Luft. (Physik. Zeitschr. Jahrg. 1, pp. 11–14. *Leipzig*, 1899.)

Fessenden (Reginald A.) Frequency meters. (Elect. World and Engineer. v. 34, pp. 739. *New York*, 1899.)

Goerner (Johannes). Über Mittel zur Erreichung grosser Phasenverschiebung und ihre Anwendung für verschiedene Messapparate. (Elektrotechnische Zeitschr. Jahrg. 20, pp. 750–751. *Berlin*, 1899.)

Guye (Ch.-Eug.) Essais sur le compteur d'énergie pour courants alternatifs Du Docteur E. Batault. (Éclairage électr. v. 21, pp. 290–295. *Paris*, 1899.)

Prusmann (C. A. L.) The practical testing of electricity meters for central stations. (Electr. Engineer. v. 29, (n. s., v. 23) pp. 38–40; 102–105; 166–167; 230–231: 340–341; 462; 590–591; 730–731. *London*, 1899.)

Stine (Wilbur M.) The hysteresis errors of electricity meters containing soft iron armatures. (Electrical World. *New York*, 1899. F°. v. 33, pp. 200–202.)

Stoeckhardt (E.) Instrument zur Ermittelung der Wechselzahl (Wechselzähler). (Elektrotechnische Zeitschr. Jahrg, 20, pp. 873–874. *Berlin*, 1899.)

Violle (J.) Rapport sur les instruments de mesures électriques de MM. Chauvin et Arnoux. (Bull. de la Soc. d'encouragement pour l'industrie nationale. sér. 5, v. 4, pp. 817–837. *Paris*, 1899.)

Werner (H.) Elektricitätszähler. (Schilling's Jour. f. Gasbeleuchtung u. Wasserversorgung. Jahrg. 42, pp. 726–745. *München*, 1899.)

Aliamet (M.) Les appareils électriques de mesure à l'exposition universelle. (Bull. de la Soc. internat. d. électriciens. v. 17, pp. 265–325; 329–402. *Paris*, 1900.)

Armagnat (H.) Appareils de mesures. (L'éclairage électr. v. 23, pp. 130–140, 370–379. *Paris*, 1900.)

—— Appareils de mesures des sections anglaise et américaine. (Éclairage electr. v. 25, pp. 405–416. *Paris*, 1900.)

—— Compteurs pour courants alternatifs. (Éclairage electr. v. 24, pp. 92–97. *Paris*, 1900.)

—— Les phasemètres industriels. (Bull. Soc. internat. d. électriciens. v. 17, pp. 452–462. *Paris*, 1900.)

Ayrton-Mather (The) portable fieldtester. (Elect. World and Engineer. v. 35, p 213. *New York*, 1900.)

Baxter (Wm.) Switchboard instruments—ammeters and voltmeters. (Amer. Machinist. v. 23, pp. 223–225. *New York*, 1900.)

Cotton (H.) Appareil pour la mesure de l'intensité des champs magnétiques. (Éclairage électr. v. 24, pp. 257–266. *Paris*, 1900.)

Coustet (E.) Les compteurs d'électricité. *Paris: B. Tignol* [1900]. 128 pp. 12° (Bibliothèque des actualilités industrielles. No. 74.)

Dubreuil (G.) Caisse portative universelle pour mesures électriques, de MM. Chauvin et Arnoux. (Annales télégraphiques. v. 25, pp. 481–495. *Paris*, 1900.)

Duddell (The) oscillograph. Constructed by the Cambridge Scientific Instrument Company, Limited, Cambridge. (Engineering. v. 69, pp. 582–584. *London*, 1900.)

Digitized by Google

Measuring Instruments, cont'd.

Fellows (W. H.) Testing, adjusting and reading Thomson recording meters. (Sci. and Industry. v. 5, pp. 545–550. *Scranton, Pa.*, 1900.)

Gruetzner (P.) Ueber die elektrostatische und elektrolytische Aufzeichnung elektrischer Ströme. (Annalen d. Physik. ser. 4, v. 1, pp. 738–757. *Leipzig*, 1900.)

Leeds (Morris E.) & Co. Electrical measuring instruments and other scientific apparatus. Catalogue B. *Philadelphia: J. G. Biddle*, 1900. 3 p.l., 120 pp. 2. ed. 8°

Marek (W.) Anwendung des Registrirapparates bei elektrischen Messungen. (Elektrotechnische Ztschr. Jahrg. 21, pp. 641–643. *Berlin*, 1900.)

Miller (William Lash), *and* **Kendrick** (F. B.) A universal electrical measuring apparatus. *9 illus.* (Roy. soc. of Canada. Proc. and trans., ser. 2, v. 6; Trans., sec 3, p. 97–104. *Ottawa*, 1900.)

Oliva (Giacomo). Nuova forma di isteresimetro. Atti dell' assoc. elettrotecn. italiana. v. 4, pp. 177–185. *Torino*, 1900.)

Pierce (G. W.) Application of the Radio-Micrometer to the measurement of short electric waves. (Amer. Jour. of Sci. v. 9, pp. 252–260. *New Haven*, 1900.)

—— Über die Verwendung des Radiomikrometers zur Messung kurzer elektrischer Wellen. (Physikalische Ztschr. Jahrg. 1, pp. 509–513. *Leipzig*, 1900.)

Pochettino (A.), *and* **Sella** (Alfonso). Sulla pretesa perdita di carica elettrica per evaporazione. (R. accad. d. Lincei. Rendic. classe di sci. fis. ser. 5, v. 9, pt. 2, p. 3–10. *Roma*, 1900.)

Reyval (J.) Compteur d'energie Holden à intégration discontinue. (L'éclairage électrique. v. 24, pp. 401–406. *Paris*, 1900.)

Rood (Ogden N.) Experiments on high electrical resistance. (Amer. Jour. of Sci. v. 10, pp. 285–294. *New Haven*, 1900.)

Ryan (Harris J.), *and* **West** (E. L.) Portable direct current measuring instruments for station tests. (Sibley Jour. of Engineering. v. 14, pp. 263–275; 311–324; 385–391. *Ithaca*, 1900.)

Stevens (J. Franklin). Electrical measuring instruments. (Street Railway Rev. v. 10, pp. 439–441. *Chicago*, 1900.)

—— —— (Electrical Review. v. 37, pp. 16–18, 34–35. *New York*, 1900.)

Appleyard (Rollo). A direct-reading conductivity-bridge. (Phys. Soc. of London. Proc. v. 17, pp. 685–687. *London*, 1901.)

Armagnat (H.) Appareils de mesures compteurs. (L'éclairage électr. v. 27, pp. 204–212; 245–252. *Paris*, 1901.)

—— Appareils de mesures. (L'éclair. électr. v. 29, pp. 345–351; 417–423. *Paris*, 1901.)

—— Les appareils de mesures électriques à l'exposition. Sections étrangères. (Jour. de physique. sér. 3, v. 10, pp. 165–195. *Paris*, 1901.)

—— Les appareils de mesures de la section française. (L'éclairage électrique. v. 26, pp. 189–204. *Paris*, 1901.)

Blondin (J.) Ondographe ou cymatographe hospitalier. (L'éclairagé électr. v. 28, pp. 64–67. *Paris*, 1901.)

Borgmann (J.) Verwendung von Geisslerröhren zur Messung kleiner Kapazitäten. (Physikal. Ztsch. Jahrg. 2, pp. 651–653. *Leipzig*, 1901.)

Gelder (G. de). Untersuchungen über die praktische Brauchbarkeit des Wrightschen Höchstverbrauchsmessers. (Schilling's Jour. f. Gasbeleuchtung. Jahrg. 44, pp. 82–86; 98–101. *München*, 1901.)

General Electric Company. Electrical measuring instruments. *Schenectady, N. Y.: [General Electric Press,]* 1901. 106 pp., 1 l., 5 tab. 4°.

Goisot (G.) Compteurs à tarif variable. (L'éclairage électrique. v. 28, pp. 27–30. *Paris*, 1901.)

Harms (Fritz). Ueber die Verwendung des calorimeters zu Messungen mit schnellen elektrischen Schwingungen. (Annalen d. Physik. ser. 4, v. 5, pp. 565–596. *Leipzig*, 1901.)

Heyck (P.) Eine neue Form des Thiermann-'schen Kompensators. (Elektrotechnische Ztschr. Jahrg. 22, pp. 871–874. *Berlin*, 1901.)

Hohmann (Edmund). Das Wright'sche Stromtarifsystem. (Elektrotech. Ztsch. Jahrg. 22, pp. 49–52. *Berlin*, 1901.)

Janet (P.) Les compteurs d'énergie. (Jour. de physique théor. & appli. sér. 3, v. 10, pp. 717–750. *Paris*, 1901.)

Kann (Leopold). Selbstregistrierender Apparat zur Messung der Elektrizitätszerstreuung in der Luft. (Physiklische Ztsch. Jahrg. 2 (1901), pp. 621–623. *Leipzig*, 1901.)

Maclean (Magnus). Kelvin's electric measuring instruments. (Jour. Inst. of Electr. Engineers. v. 31, pp. 117–137. *London*, 1901.)

Möller (M.) Apparat zur Veranschaulichung des Bewegungsgesetzes elektrischer Ströme. (Verhandl. d. Vereins zur Beförderung des Gewerbfleisses. Abhandl. 1901. pp. 129–143. *Berlin*, 1901.)

Parker (Herschel C.) A percentage bridge. [With discussion] (Transac. Amer. Inst. Electr. Engineers. v. 17, pp. 303–308. *New York*, 1901.)

Perrin (P.) Sur les instruments de mesures électriques enregistreurs. (Bull. de la soc. internat. d. électriciens. sér. 2, v. 1, pp. 155–180. *Paris*, 1901.)

Schedd (J. C.) Die Anwendung des Interferometers beim Studium des Zeemaneffektes. (Physik. Ztschr. Jahrg. 2, pp. 278–283. *Leipzig*, 1901.)

Smith (Arthur T.) Notes on meter testing. (Electr. Rev. v. 48, pp. 1047–1048. *London*, 1901.)

Zacharias (J.) Elektrische Verbrauchsmesser der Neuzeit für den praktischen Gebrauch dargestellt. *Halle a S.: W. Knapp*, 1901. xii, 352 pp. 8°.

Armagnat (H.) Appareils de mesures. Compteurs. (L'éclair. elect. v. 32, pp. 155–161. *Paris*, 1902.)

Digitized by Google

Measuring Instruments, cont'd.

Dietze (G.) Ein neues Messgeräth und seine Verwendung. (Elektrotech. Ztsch. Jahrg. 23, pp. 843–847. *Berlin*, 1902.)

Kollert ( ) Ueber Hitzdrahtstrommesser. (Elektrotechn. Ztschr. Jahrg. 23, pp. 384–386. *Berlin*, 1902.)

Marek (W.) Bemerkungen, betreffend die Benutzung der neueren elektrischen Präcisions Messinstrumente mit Zeigerablesung. (Elektrotechn. Ztschr. Jahrg. 23, pp. 447–450. *Berlin*, 1902.)

Ondograph (The). (Scientif. Amer. Suppl. v. 54, p. 22305. *New York*, 1902.)

Sharp (Clayton H.) Checking electrical instruments. (Electr. Rev. v. 41, pp. 401. *New York*, 1902.)

Stern (Georg). Ein neuer Wechselstromzähler der Union Elektricitäts-Gesellschaft. (Elektrotechn. Ztschr. Jahrg. 23, pp. 774–779. *Berlin*, 1902.)

—— —— *Ammeter.*

Murray (R. Milne). On a simple ammeter suitable for lamp-testing and other purposes. pl. (Roy. Scottish soc. of arts. Trans. v. 14, pp. 170–171. *Edinburgh*, 1896.)

Schaefer (C. W.) The capabilities of the milammeter and the galvanometer in general and submarine cable testing. (Electrician. v. 49, pp. 677–679; 707–709; 755–757; 793–795. *London*, 1902.)

—— —— *Ampere meter.*

Reyval (J.) Ampèremètres et voltmètres caloriques Chauvin et Arnoux. (L'éclair. électr. v. 31, pp. 207–211.) *Paris*, 1902.)

Rio Joan (Francisco del). Verificación de amperimetros por el método electroquimico. (Mem. de ingen. del ejército. año 57, ser. 4, v. 19, pp. 14–19; 33–42; 65–72; 100–106; 129–136; 161–167; 193–199. *Madrid*, 1902.)

Weiss (Pierre). Ampèremètres et voltmètres independants de l'intensité de leur aimant permanent. (L'éclairage électr. v. 31, pp. 381–384. *Paris*, 1902.)

—— Nouveaux ampèremétres et voltmètres independants de leur aimant pour courant continu. (Bull. Soc. internat. d. électriciens. sér. v. 2, pp. 266–275. *Paris*, 1902.)

—— —— *Electrodynamometer.*

Giltay (J. W.) Ein geaichtes Electrodynamometer, insbesondere für electrotherapeutische Zwecke. *Leipzig: J. A. Barth* [1893?]. pp. 756–765. 8°.
Repr.: Annalen der Physik und Chemie. Band 50.

Deprez (Marcel). Sur un nouvel électrodynamomètre absolu. (Jour. de physique théor. et appliquée. *Paris*, 1898. 8°. sér. 3, v. 7, pp. 697–702.)

Guthe (Karl E.) Eine Neubestimmung elektrischer Einheiten mittels eines absoluten Elektrodynamometers. (Physikalische Zeitschr. Jahrg. 1, pp. 235–236. *Göttingen*, 1900.)

Kapp (Gisbert). A meter for measuring tractive force on electric tramcars. (Electr. Rev. v. 37, pp. 219–220. *New York*, 1900.)

—— Zugkraftmesser für elektrische Bahnwagen. (Elektrotechnische Ztschr. Jahrg. 21, pp. 578–579. *Berlin*, 1900.)

Kollert (Julius). Elektrodynamometer mit Spiegelablesung für technische Zwecke. (Elektrotechnische Ztsch. Jahrg. 21, pp. 788–794. *Berlin*, 1900.)

Goldsborough (W. Elwell). A new transmission dynamometer. [With discussion.] (Transac. Amer. Inst. Electr. Engineers. v. 17, pp. 287–301. *New York*, 1901.)

—— —— *Electrometers.*

Dellman (Friedrich). Uber ein neues Elektrometer. *Koblenz*, 1842. 8°.

Bottomley (James Thomson). Electrometers. (In Science lectures at So. Kensington, v. 1. 1878.)

Burgess (Charles Frederick). A capillary electrometer for electrical measurements. (Electrical Engineer. *New York*, 1898. 4°. v. 26, pp. 99–100.)

Vanni (G.) Sopra una nuova forma dell' elettrometro capillare. (R. accad. dei Lincei. Rendic. classe d. sci. fis. ser. 5, v. 7, pt. 1, pp. 309–310. *Roma*, 1898.)

Perot (A.), *and* **Fabry** (Ch.) Électromètre absolu pour petites différences de potentiel. (Annales télégraphiques. sér. 3, v. 24, pp. 511–537. *Paris*, 1899.)

Addenbrooke (The) electrometer. (Electr. Engineer. (v. 31). n. s., v. 25. pp. 150–151. *New York*, 1900.)

Chauveau (A. B.) Sur la déviation limite de l'électromètre à quadrants. (Jour. de physique théor. & appli. sér. 3, v. 9, pp. 524–532. *Paris*, 1900.)

Hermann (L.), *and* **Gildemeister** (M.) Untersuchungen über die Eigenschaften und die Theorie des Kapillar Elektrometers. (Archiv. f. d. ges. Physiologie d. Mensch. u. der Thiere. v. 81, pp. 491–521. *Bonn*, 1900.)

Duane (William). Note on electrometers. (Phys. Rev. v. 13, pp. 369–377. *Lancaster, Pa.*, 1901.)

Koenigsberger (J.) Ueber die Verwendung des Quadrant-elektrometers zur ballistischen Messung der magnetischen Feldstärke und über die Susceptibilität des Wassers. (Annalen d. Physik. ser. 4, v. 6, pp. 506–519. *Leipzig*, 1901.)

Cole (A. D.) Practical experience with the capillary electrometer. 1 pl. (Bull. Scientif. Lab. Denison Univ. v. 11, pp. 265–273. *Granville, Ohio*, 1902.)

Grimsehl (E.) Ein empfindliches Aluminiumblatt-Elektrometer. (Physikal. Ztschr. Jahrg. 3, pp. 569–572. *Leipzig*, 1902.)

Houllevigue (L.) Modèle commode d'électromètre capillaire. (Jour. de Physique. ser. 4, v. 1, pp. 382–383. *Paris*, 1902.)

—— —— *Electroscope.*

Pflaum (H.) Ueber ein Vacuumelektroscop. (Annalen der Physik. ser. 4, v. 1, (v. 306) pp. 290–293. *Leipzig*, 1900.)

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Measuring Instruments, cont'd.

—— —— *Faradmeter.*

Pupin (M. I.) A faradmeter. [With discussion.] (Transac. Amer. Inst. Electr. Engineers. v. 17, pp. 75–80. *New York*, 1901.)

—— —— (Electrical Review. v. 36, pp. 262. *New York*, 1900.)

—— —— *Galvanometer.*

Bosscha (Johannes), *fil.* *Dissertatio physica inauguralis de galvanometro differentiali . . . x, 62 pp. *Lugduni-Batavorum: C. G. Menzel*, 1854. 8°.

Mayer (A. M.) On a new form of lantern-galvanometer. n. p. [1872?] 6 pp. 8°.

Repr.: The American Journal of Science and Arts. Vol. III, June, 1872.

Haskins (C. H.) The galvanometer and its uses. 2 ed. *New York*, 1881. 12°.

Willson (R. W.) Ein empfindliches Galvanometer mit messbarem Reductionsfactor. n. p. 1885. pm. 8°.

Lockwood (T. D.) Electrical measurement and the galvanometer . . . 2 ed. *New York*, 1890. 12°.

Ayrton (William Edward), **Mather** (T.), *and* **Sumpner** (W. E.) Galvanometers. *Illus.* (Philos. mag. and jour. of science, ser. 5, v. 30, pp. 58–95; v. 42, pp. 442–446; v. 46, pp. 349–379. *London*, 1890–'98.)

The second and third papers were written by W. E. Ayrton and T. Mather alone.

Harker (J. A.) A delicate galvanometer, for use with platinum thermometers. (Roy. Soc. Proc., vol. 60, 1896, pp. 154–156.)

Fabry (Ch.) Sur le champ magnétique au centre d'une bobine cylindrique et la construction des bobines de galvanomètres. (L'Éclairage électrique. *Paris*, 1898. 4°. v. 17, pp. 133–141.)

Lendi (J. Henry). A new form of galvanometer. (Proc. of the Indiana Acad. of Science, 1897. *Indianapolis*, 1898. 8°. pp. 127–130.)

Ayrton (W. E.), *and* **Mather** (T.) Galvanometers. (Physical Soc. of London. *London*, 1898. 8°. v. 16, pp. 169–206.)

Barus (C.) Ballistic galvanometry with a counter-twisted torsion system. (Physical Rev. *New York*, 1898. 8°. v. 7, pp. 10–18.)

Pomey (J. B.) Note sur les meilleures conditions d'emploi du galvanomètre différentiel pour la mesure des faibles résistances. (Éclairage électrique. *Paris*, 1899. 4°. v. 18, pp. 247–249.)

Beattie (R.) Note on a possible source of error in the use of a ballistic galvanometer. (Lond., Edinb. and Dublin Philosoph. Maga. v. 50, pp. 575–579. *London*, 1900.)

Bois (H. du), *and* **Rubens** (H.) Panzergalvanometers. (Zeitschr. f. Instrumentenkunde. Jahrg. 20, pp. 65–78. *Berlin*, 1900.)

—— —— (Annalen der Physik. ser. 4, v. 2, pp. 84–95. *Leipzig*, 1900.)

Boyd (James E.) The galvanometer. (Science and industry. v. 5, pp. 88–90.) *Scranton, Pa.*, 1900.)

Chevallier (H.) Note sur l'influence des courants de tramways sur les mesures galvanométriques. (Bull. Soc. internat. d. électriciens. v. 17, pp. 434–436. *Paris*, 1900.)

Day (William S.) A new method of measuring the resistance of a galvanometer. (Physical Rev. v. 11, pp. 251–254. *Lancaster, Pa.*, 1900.)

Gratz (Wm.) Calibration of a galvanometer. (Sci. and Industry. v. 5, pp. 318–322. *Scranton, Pa.*, 1900.)

Solomon (Maurice). On the damping of galvanometer needles. (Lond., Edinb. and Dub. Philosoph. Maga. ser. 5, v. 49, pp. 559–570. *London*, 1900.)

—— —— (Physical Society of London. Proceedings. v. 17, pp. 181–193. *London*, 1900.)

Wilson (R. M.) Sensitive Thomson galvanometer. (Science and Industry. v. 5, pp. 488–491. *Scranton, Pa.*, 1900.)

Crawley (C. W. S.) Note on the use of the differential galvanometer. [Discussion.] (Jour. Inst. of Electr. Engineers. v. 30, pp. 908–926. *London*, 1901.)

—— —— (Electrician. v. 47, pp. 143–144. *London*, 1901.)

Disselhorst (H.) Ueber ballistische Galvanometer mit beweglicher Spule. (Annalen d. Physik. ser. 4, v. 9, pp. 458–467. *Leipzig*, 1902.)

Einthoven (W.) Un nouveau galvanomètre. (Archives néerlandaises, ser. 2, v. 6. pp. 625–633. *La Haye*, 1901.)

Kümmel (G.) Untersuchungen über d'Arsonval-Galvanometer. (Ztsch. f. Elektrochem. Jahrg. 7, pp. 745–750. *Halle-a-S.*, 1901.)

Lippmann (G.) Sur un galvanomètre parfaitement astatique. (Jour. de phys. théor & appli. sér. 3, v. 10, pp. 476–478. *Paris*, 1901.)

Mendenhall (C. E.), *and* **Waidner** (C. W.) On galvanometers of high sensibility. (Amer. Jour. of Sci. ser. 4, v. 12, pp. 249–262. *New Haven*, 1901.)

Robertson (David). The apparent resistance of a ballistic galvanometer of the moving coil type, and a method of allowing for the damping current. (Electrician. v. 46, pp. 901–904; v. 47, pp. 17–20. *London*, 1901.)

Wright (J.) The development of the galvanometer. (Cassier's Maga. v. 22, pp. 601–607. *New York*, 1902.)

—— —— *Potentiometer.*

Fisher (W. C.) The potentiometer and its adjuncts. x, 194 pp., 2 pl. *London: "The Electrician" Print and Pub. Co.* [1897.] 8°. (Electrician series.)

Hering (Carl). Liquid potentiometer; determining electrolytic resistances with direct current instruments. (Transac. Amer. Inst. of Electr. Engineers. v. 19, pp. 827–833. *New York*, 1902.)

—— —— *Voltmeter.*

Pérot (A.), *and* **Fabry** (Ch.) Sur un voltmètre électrostatique interférentiel pour étalonnage. (Jour. de Physique théorique et appliquée. *Paris*, 1898. 8°. sér. 3, v. 7, pp. 650–659.)

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Measuring Instruments, cont'd.

Davies (Benjamin). A new form of amperemeter and voltmeter with a long scale. (Lond., Edinb. & Dublin Philosoph. Maga. & Jour. of Sci. v. 48, pp. 204–212. *London*, 1899.)

—— —— (Physical Society of London. Proceedings. v. 16, pp. 425–435. *London*, 1899.)

O'Keenan (C. E.) Compteur volt-heure-mètre O'Keenan dit "Compteur O'K." (Bull. Soc. internat. d. électriciens. v. 16, pp. 391–409. *Paris*, 1899.)

Pérot (A.), *and* **Fabry** (Ch.) Sur un voltmètre électrostatique interférentiel pour étalonnage. (Annales télégraphiques. sér. 3, v. 24, pp. 538–550. *Paris*, 1899.)

Thiermann (W.) Spiegel-Voltmeter mit weitem Messbereich. (Elektrotechnische Zeitschr. Jahrg. 21, pp. 211–214. *Berlin*, 1900.)

Campbell (Albert). On a phase-turning apparatus for use with electrostatic voltmeters. (Electrician. v. 46, pp. 399–402. *London*, 1901.)

Field (Michael B.) A method of compensating voltmeters for the voltage drop in long feeders. [Discussion.] (Jour. Inst. of Electr. Engineers. v. 30, pp. 567–595. *London*, 1901.)

—— —— (Electrician. v. 46, pp. 657–659, 729–732. *London*, 1901.)

Hanchett (George T.) A means of measurement of the angle of lag and the power factor with a voltmeter. (Electr. World and Engineer. v. 38, pp. 718–719. *New York*, 1901.)

Compensating voltmeters. (Sci. & Industry. v. 7, pp. 124–128. *Scranton, Pa.*, 1902.)

Dobbs (A. E.) The possible uses of a voltmeter. (Amer. Telephone Jour. v. 5, pp. 287–289. *New York*, 1902.)

Laws (Frank Arthur), *and* **Coolidge** (William David). An apparatus for the rapid comparison of voltmeters. *4 diagrams.* (Technology quarterly. v. 15, pp. 69–73.) *Boston*, 1902.)

Lehfeldt (R. A.) A voltameter for small currents. (Lond., Edinb. and Dub. Philosoph. Maga. and Jour. of Sci. ser. 6, v. 3, pp. 158–159. *London*, 1902.)

—— —— (Physical Society of London. Proceedings. v. 18, pp. 82–84. *London*, 1902.)

—— —— *Wattmeter.*

Richards (Theodore W.), *and* **Heimrod** (George W.) Ueber die Genauigkeit des verbesserten Voltameters. (Ztsch. f. physikalische Chemie. v. 41, pp. 302–330. *Leipzig*, 1902.)

General Electric Company. Thompson recording Wattmeters. [*Schenectady, N. Y.:*] *Gen. Elect. Co.*, 1898. 46 pp. 4°.

Arnò (Riccardo). Wattometro elettrostatico per correnti alternative ad alta tensione. (R. accad. d. scienze. Atti, v. 33, p. 827–831. *Torino*, 1898.)

Grau (August). Über die Erweiterung des Messbereiches des Wattmeters. (Mittheil. d. k. k. technologischen Gewerbe-Museums. *Wien*, 1898. 4°. n. s. Jahrg. 9, pp. 39–43.)

Loppé (F.) Sur le facteur de correction des wattmètres. (L'Eclairage électrique. *Paris*, 1898. 4°. v. 16, pp. 525–530.)

White (Wallace D.) A frictionless wattmeter. (Electr. World & Engineer. v. 33, pp. 855–856. *New York*, 1899.)

Arnò (Riccardo). Un nuovo metodo di misura con l'impiego del Wattmetro-Pasometro. (Atti dell' assoc. elettrotecn. italiana. v. 4, pp. 75–77. *Torino*, 1900.)

—— Sull' impiego del Wattometro-fasometro per sistemi trifasi ad alta tensione. (Atti dell' assoc. elettrotecn. italiana. v. 5, pp. 385-388. *Torino*. 1901.)

Barker (J. H.) A combination integrating wattmeter and maximum-demand indicator. (Electrical Engineer. v. 32 (n. s., v. 26), pp. 335–336. *London*, 1900.)

Drysdale (Charles V.) The theory and use of the alternate current wattmeter. (Electrician. v. 46, pp. 774–778. *London*, 1901.)

Holden (Frank). A watt-hour meter. [Discussion.] (Jour. Inst. of Electr. Engineers. v. 30, pp. 944–968. *London*, 1901.)

Arcioni (Vittorio). Sopra un nuovo kilowattometro registratore con "relais." (Atti dell' assoc. elettrotecn. italiana. v. 6, pp. 215–235. *Torino*, 1902.)

Armagnat (H.) Wattmeters et compteurs pour courants alternatifs. (L'éclairage électr. v. 31, pp. 237–245. *Paris*, 1902.)

Brandeis (Charles). Rating of wattmeters for three-phase systems. (Electr. World & Engineer. v. 39, pp. 474. *New York*, 1902.)

Power Plants and Supply Stations.

General works only are included here; for power plants of a given place see the regional subdivision under *Electricity —Power Plants* in the Index (card) catalogue in the reading room.

Urbanitsky (A. von). Die elektrischen Beleuchtungs-Anlagen mit besonderer Berücksichtigung iher praktischen Ausführung. *Wien*, 1883. 12°. (Elektrotechnische Bibliothek. Band 11. bd. with Band 3, 4.)

Hedges (K.) Continental electric light central stations, with notes on the methods in actual practice for distributing electricity in towns. . . . *London*, 1892. 4°.

Siemens *and* **Halske**, Elektrische Central-Anlagen. [*Berlin: O. v. Holten*, 1893?] 2 p. l., 70 pp., 27 pl. obl. 8°.

—— —— [*Berlin: O. v. Holten*, 1893?] 2 p. l., 74 pp., 34 pl. obl. 8°.

Allgemeine Elektricitäts-Gesellschaft, Berlin. Elektrische Beleuchtung und Kraftübertragung. Hilfsbuch zur Anfertigung von Projekten und Kostenanschlägen. v. p., ill., maps. *Berlin: J. Springer* [1894]. 8°.

Leggett (T. H.) Electric power transmission plants and the use of electricity in mining operations. *Sacramento: State Office*, 1894. 45 pp. 8°.

Repr.: 12. Report State Mineralogist, 1894.

Bell (L.) Electric power transmission. A practical treatise for practical men. 4 p. l., 491 pp., 4 pl. *New York: The W. J. Johnston Co.*, 1897. 8°.

Digitized by Google

Power Plants, cont'd.

Foder (Etienne de). Elektricität direkt aus Kohle. x, 1 l, 306 pp. *Wien: A. Hartleben*, 1897. 12°. (Elektrotechnische Bibliothek. Bd. 46.)

Riha (J.) Die Aufstellung von Projekten und Kostenvoranschlägen für elektrische Beleuchtungs- und Kraftübertragungs Anlagen. . . . viii, 483 pp., ill. *Leipzig: Veit & Co.*, 1897. 12°.

Fischer (L.) Elektrische Licht-und-Kraft-Anlagen. Gesichtspunkte für deren Projectierung. *Wiesbaden: C. W. Kreidel*, 1898. xi, 317 pp. 4°.

Hecker (A.) Elektrische Kraftübertragungsanlagen und deren praktische Ausführung. *Halle a. S.: W. Knapp*, 1898. iv, 1 l., 122 pp. 8°.

Heim (C.) Die Einrichtung elektrischer Beleuchtungsanlagen für Gleichstrombetrieb. *Leipzig: O. Leiner*, 1899. xv, 620 pp. 3. ed. 8°.

Scott (Charles F.) Evolution in central-station practice. (Engineering Maga. *New York*, 1898. 8°. v. 16, pp. 255–268.)

Sturtevant (B. F.) Co. Illustrated catalogue of the Sturtevant engines for electric light plants and general high grade work. *New York, The Co.*, 1898. 45 pp., 1 p. l. 8°.

Wordingham (C. H.) Lectures on the production and distribution of electrical energy, delivered to the members of the city council. *Manchester: H. Blacklock & Co., Ltd., prtrs.*, 1898–9. 1 l., 41 pp. 8°. (*Manchester (England), City Council.*)

Adams (Alton D.) Storage batteries versus electric isolated plants. (Cassier's Maga. v. 16, pp. 659–662. *New York*, 1899.)

Bell (Louis). Electric power distribution and the small consumer. (Engineering Maga. v. 18, pp. 240–248. *New York*, 1899.)

Gay (A.), *and* **Yeaman** (C. H.) An introduction to the study of central station electricity supply. *London: Whittaker & Co.*, 1899. xiii, 467 pp., 4 plans, 4 pl., 2 tables. 12°.

Kath (Hubert). Die Sicherheit des Menschen gegenüber elektrischen Anlagen. (Elektrotechnische Zeitschr. Jahrg. 20, pp. 601–603. *Berlin*, 1899.)

Adams (Alton D.) Electric, gas, and heating plants. (Electr. Rev. v. 37, pp. 275–276. *New York*, 1900.)

Cromptom (R. E.) Influence of cheap fuels on the cost of electrical energy. 1 p. l. (Jour. Inst. of Electr. Engineers. v. 29, pp. 62–77. *London*, 1900.)

Dawson (Philip). The use of gas engines in connection with electric power plants. (Engineering. v. 70, pp. 169–172; 199–206; 244–246; 273–276. *London*, 1900.)

Doherty (Henry L.) Electric central station affairs. (Progressive Age. v. 18, pp. 75–78. *New York*, 1900.)

Krone (M.) Elektrizitätswerke mit Gasmaschinenbetrieb. (Zeitschr. d. Vereines deutscher Ingenieure. v. 44, pp. 39–48. *Berlin*, 1900.)

Lasche (O.) Elektrischer Einzelantrieb und seine Wirtschaftlichkeit. (Ztsch. d. Vereines deut. Ingenieure. v. 44, pp. 1189–1198; 1242–1246; 1279–1285. *Berlin*, 1900.)

Peach (C. Stanley). Central stations. (Electr. Engineer. v. 31, (n. s., v. 25) pp. 309–311; 336–340. *London*, 1900.)

Schott (W. H.) Central station heating in connection with electric-lighting plants. (Municipal Engineering. v. 18, pp. 156–158. *Indianapolis*, 1900.)

Eborall (A. C.) Some notes on polyphase substation machinery. (Electr. Engineer. v. 33 (n. s., v. 27), suppl. to Mar. 29, 1901, pp. 1–8; v. 33, pp. 515–520. *London*, 1901.)

Jones (Forrest R.) Power and light for the machine shop and foundry. (Amer. Machinist. v. 24. pp. 59–64. *New York*, 1901.)

Kistner (Alfred). Schaltungsarten und Betriebsvorschriften elektrischer Licht- und Kraftanlagen unter Verwendung von Akkumulatoren. . . . *Berlin: J. Springer*, 1901. viii, 210 pp. 8°.

Mittelman (L.) Elektrische Licht- und Kraftanlagen im Anschluss an Elektrizitätswerke. . . . *Halle a. S.: C. O. Lehmann*, 1901. 2 p. l., 46 pp., 1 l. 8°.

Moses (P. R.) The choice of an electric-power distribution system in factories. (Engineering Maga. v. 21, pp. 883–890. *New York*, 1901.)

Philippe (René). Utilisation des chutes d'eau à la production d'énergie électrique. 2 pl. (Portefeuille écon. des machines. sér. 4, v. 10, col. 97–102. *Paris*, 1901.)

Scott (Charles F.) Apparatus for power distribution from central stations. (Jour. Franklin Inst. v. 151, pp. 282–308. *Philadelphia*, 1901.)

Scott (J. Gray). Electricity works load factors. (Electr. Engineer. v. 34 (n. s., v. 28), pp. 876–876. *London*, 1901.)

Vorschriften für die Errichtung von elektrischen Starkstromanlagen. (Electrotech. Ztschr. Jahrg. 22, pp. 972–979. *Berlin*, 1901.)

Wordingham (C. H.) Central electrical stations: their design, organisation and management. *London: C. Griffin & Co.*, 1901. xvi, 496 pp., 1 diag., 3 plan, 1 pl., 1 tab. 8°.

Wyld (W.) Polyphase equipment of factories. [Discussion.] Jour. Inst. of Electr. Engineers. v. 30., pp. 986–1019. *London*, 1901.)

—— —— (Electrical Engineer. v. 33 (n. s., v. 27), pp. 686–692. *London*, 1901.)

Adams (Alton D.) Incomes of electric stations. (Electr. Rev. v. 41, pp. 324–327. *New York*, 1902.)

Arnold (E.) Das polycyklische Stromvertheilungssystem Arnold-Bragstad-la Cour. (Elektrotechn. Ztschr. Jahrg. 23, pp. 569–571; 584–588. *Berlin*, 1902.)

Clothier (Henry W.) The construction of high-tension central station switch-gears, with a comparison of British and foreign methods. (Jour. Inst. of Electr. Engineers. v. 31, pp. 1247–1264. *London*, 1902.)

Earle (Hardman A.) The supply of electricity in bulk. (Electrician. v. 48, pp. 612–614; 662–664. *London* 1902.)

Eisig (M.) Betrachtungen über Bahncentralen. (Elektrotech. Ztsch. Jahrg. 23, pp. 588–593; 607–611. *Berlin*, 1902.)

Digitized by Google

Power Plants, cont'd.

Gola (G.) Protezione degli impianti elettrici contro le scariche atmosferiche scaricafulmini per linee aeree tipo in serie. 4 pl. (Atti dell' assoc. elettrotecn. italiana. v. 6, pp. 28–41. *Torino*, 1902.)

Martin (Henry). Production et distribution de l'énergie pour la traction électrique. *Paris: C. Béranger*, 1902. 2 p. l., 749 pp., 1 l. 8°.

Moore (J. F.) The mains department of a direct-current electric supply station. (Electr. Engineer. v. 35 (n. s., v. 29) pp. 518–521. *London*, 1902.)

Parsons (Isaac D.) The economy of isolated electric plants. n. p., 1902. 1 p. l., 573–736 pp. 8°.

Repr.; Engineering Mag., 1902.

Piazzoli (Emile). Installations d'éclairage électrique: manuel pratique. Traduit de l'Italien par G. Cucurullo et E. A. della Santa. *Paris: C. Béranger*, 1902. 3 p. l., xi, 657 pp., 1 l., 1 plan. 5 ed. 8°.

Stegen (Van der). Les conditions de régularité des machines de stations centrales. (Soc. belge d'électriciens. Bull. v. 19, pp. 14–42. *Bruxelles*, 1902.)

—— *Accounts.*

Electricity works accounts. (Electrician. *London*, 1898. 4°. v. 42, pp. 6–7.)

Foster ([H A]) Photo-engraved samples of Foster's central station blanks. *New York: C. C. Shelley* [1900?]. 27 pp. 8°.

Electricity works accounts. (Electrician. v. 46, pp. 240–241. *London*, 1900.)

Electricity works accounts. Portsmouth municipal electric supply works. (Electrician. v. 48, pp. 16–17. *London*, 1901.)

Electricity works accounts. Salford municipal electric supply works. (Electrician. v. 48, pp. 534–535. *London*, 1902.)

Electricity works accounts. (Electrician. v. 48, pp. 1016–1017. *London*, 1902.)

Electricity works accounts. County of London and Brush Provincial Electric Lighting Co. (Ltd.) (Electrician. v. 49. pp. 96–97. *London*, 1902.)

—— *Costs.*

Fodor (E. de). Materialien für Kostenvoranschläge elektrischer Lichtanlagen. *Wien*, 1888. 12°. (Electro. techn. Bibliothek. Band 39.)

Dawson (Philip.) The cost of electric power production. (Engineering. v. 69, pp. 701–704; 739–740; 841–845. *London*, 1900.)

Dawson (Philip). Some figures on the cost of electric power plants. (Engineering. v. 70, pp. 112–113. *London*, 1900.)

Cost of electrical works in Europe. (Consular Reports. v. 65, pp. 302. *Washington*, 1901.)

Electricity supply works costs in 1898 and 1899. (Electrician. v. 46, pp. 382–388. *London*, 1901.)

Moses (Percival Robert). Cost determination in isolated electric plants. (Engineering Maga. v. 20, pp. 1082–1088. *New York*, 1901.)

Tittensor (W. H.) The equitable allocation of costs in combined lighting and traction stations. (Electrician. v. 47, pp. 488–489. *London*, 1901.)

Adams (Alton D.) Costs of electric power transmission. (Cassier's Maga. v. 22, pp. 652–657. *New York*, 1902.)

Electricity supply works costs in 1899 and 1900. (Electrician. v. 48, pp. 410–418. *London*, 1902.)

—— *Design and Equipment.*

Carter (E. T.) Motive power and gearing for electrical machinery: a treatise on the theory and practice of the mechanical equipment of power stations for electric supply and for electric traction. xxii, 620 pp., 15 pl., ill. *New York . . . : The D. Van Nostrand Co.* [1896]. 8°.

(The Electrician series.)

Humphrey (H. H.) The design and construction of a modern central lighting station. 1 pl. (Jour. Assoc. of Engineering Soc. v. 23, pp. 166–194. *Philadelphia*, 1899.)

Adams (Alton D.) Economic equipment of electric stations. (Electr. World and Engineer. v. 35, pp. 316–318. *New York*, 1900.)

Dawson (Philip). Some general conditions governing power station design. (Street Railway Jour. v. 16, pp. 682–683. *New York*, 1900.)

Roberts (A.) The designing of electrical generating stations. (Electr. Engineer. (v. 31) n. s., v. 25, pp. 152–155. *New York*, 1900.)

Shepardson (George D.) Why some municipal electric plants do not pay better. (Electr. Rev. v. 37, pp. 37; 52–55. *New York*, 1900.)

Woodbridge (J. E.) The influence of polyphase apparatus on the design of railway power stations. (Electr. World and Engineer. v. 38, pp. 532–534; 592–594; 638–641. *New York*, 1901.)

Robbins (C. G.) A comparison of the steam piping systems of the four large electrical stations of New York. (Amer. Electrician. v. 14, pp. 255–261. *New York*, 1902.)

—— *Gas Engines for.*

Ayrton (W. E.) On the economical use of gas engines for the production of electricity . . . *London: W. Dawson & Sons* [1882?]. 14 pp., 1 l. 8°.

Adams (Alton D.) Gas engines and electric stations. (Engineering Maga. v. 19, pp. 28–32. *New York*, 1900.)

Dawson (Philip). The use of gas engines in connection with electric power plants. (Engineering. v. 70, pp. 169–172; 199–206; 244–246; 273–276. *London*, 1900.)

—— Some existing gas-driven power plants. (Engineering. v. 70, pp. 287–288; 322; 399; 465–466; 526–527; 589–591; 654. *London*, 1900.)

Humphrey (Herbert A.) Power-gas and large gas-engines for central stations. 11 pl. (Inst. of Mechanical Engineers. Proc. 1901. pp. 41–247. *London*, 1901.)

—— —— (Engineering. v. 70, pp. 813–815, 845–848; v. 71, pp. 27–29, 60–63. *London*, 1900–01.)

—— *History.*

Adams (Alton D.) The development of electric stations. (Cassier's Maga. v. 17, pp. 91–103. *New York*, 1899.)

Digitized by Google

Power Plants, cont'd.

Duncan (Louis). Present status of the transmission and distribution of electrical energy. (Smithsonian Inst. Annual rpt. for 1896, pp. 207–221. *Washington*, 1898.)

—— *Standardization.*

Sellon (R. Percy). The standardisation of electrical engineering plants. (Electr. Engineer. (v. 31) n. s., v. 25, pp. 201–202; 227–228. *London*, 1900.)

—— —— (Jour. Institute Electr. Engineers. v. 29, pp. 291–303. *London*, 1900.)

—— —— (Engineer. v. 89, 144 pp. *London*, 1900.)

—— *Statistics.*

Hale (R. S.), *and* **Codman** (J. S.) Electricity and population in the cities of the world. (Electrical World. *New York*, 1899. F°. v. 33, p. 19.)

Statistik der Elektricitätswerke in Deutschland nach dem Stände vom 1 März, 1898. (Elektrotechnische Zeitschr. *Berlin*, 1898. F°. Jahrg. 19, pp. 442–461.)

Statistik der Elektricitätswerke in Deutschland nach dem Stände vom 1. März, 1899. (Elektrotechnische Zeitschr. Jahrg. 20, pp. 474–487. *Berlin*, 1899.)

Erzeugung (Die zur) elektrischen Stromes dienende Dampfkraft in Preussen i J. 1899. (Ztschr. f. angewandte Chemie. Jahrg. 1900, pp. 356–359. *Berlin*, 1900.)

Dawson (Philip). Some statistics relating to electric power production. (Engineering. v. 69, pp. 434–435; 539–540; 635–636. *London*, 1900.)

Gibbings (A. H.) Electrical driving of factories from the public point of view. (Electr. Engineer. v. 31 (n. s., v. 25), pp. 453–456; 476–478. *London*, 1900.)

Adams (Alton D.) Massachusetts electrical systems in 1901.—Finances. (Electr. World and Engineer. v. 39, pp. 1008–1010. *New York*, 1902.)

RESONANCE.

Lagergren (S.) Ueber die Dämpfung elektrischer Resonatoren. 4 ills. pl., pp. 30. (Kongl. svenska vetenskaps-akad. Bihang till handlingar. v. 23, pt. 1, no. 4. *Stockholm*, 1897.)

Décombe (L.) Résonance multiple des oscillations électriques. (Annales de chimie et de physique. *Paris*, 1898. 8°. ser. 7, v. 15, pp. 156–202.)

Rosa (Edward B.), *and* **Smith** (Arthur W.) A resonance method of measuring energy dissipated in condensers (Physical Rev. *Lancaster, Pa.*, 1899. 8°. v. 8, pp 1–20.)

Turpain (A.) Étude experimentale sur le résonateur de Hertz. (Archives néerlandaises. ser. 2, v. 5, pp. 152–163. *La Haye*, 1900.)

Armagnat (H.) Résonance dans les circuits à courant continu. (L'éclairage électrique. v. 27, pp. 465–468. *Paris*, 1901.)

Aschkinass (E.), *and* **Schaefer** (Cl.) Ueber den Durchgang elektrischer Wellen durch Resonatorensysteme. (Annalen d. Physik. ser. 4, v. 5, pp. 489–500. *Leipzig*, 1901.)

Kiebitz (Franz). Bestimmungen der Resonanz elektrischer Schwingungen mit Hülfe des Cohärers. (Annalen d. Physik. ser. 4, v. 6, pp. 741–753. *Leipzig*, 1901.)

Planck (Max). Vereinfachte Ableitung der Schwingungsgesetze eines linearen Resonators im stationär durchstrahlten Felde. (Physikal. Ztschr. Jahrg. 2, pp. 530–534. *Leipzig*, 1901.)

Russell (Alexander). Note on resonance with alternating currents. (Jour. Inst. of Electr. Engineers. v. 30, pp. 596–606. *London*, 1901.)

Turpain (A.) Fonctionnement du résonateur de Hertz et du résonateur a coupure—observation de la résonance électrique dans l'air raréfié. (Jour. de Physique. ser. 3, v. 10, pp. 425–438. *Paris*, 1901.)

Armagnat (H.) Application des oscillographes à la méthode de résonance. (L'éclair. électr. v. 30, pp. 373–385. *Paris*, 1902.)

TESTING.

Kempe (Harry Robert). A handbook of electrical testing. *London and New York*, 1876. il. pl. 16°.

Fisher (H. K. C.), *and* **Darby** (J. C. H.) Students' guide to submarine cable testing. *London: "The Electrician" Printing and Publishing Co.* [189–?] viii, 1 l., 166 pp. 8°.

Webb (H. L.) A practical guide to the testing of insulated wires and cables. [il.] *New York*, 1891. 12°.

Kempe (H. R.) A handbook of electrical testing. 5. ed. *London*, 1892. 8°.

Raphael (F. C.) The localization of faults in electric light mains; a handbook for central station engineers. v. 1 l., 184 pp. *London: "The Electrician" Print. and Pub. Co.* [1897]. 8°.

Fisher (H. W.) Methods of locating faults in underground electric cables. (Proc. Engineers' Soc. of Western Penn. v. 16, pp. 328–365. *Pittsburgh, Pa.*, 1900.)

Raphael (F. C.) Isolationsmessungen und Fehlerbestimmungen an elektrischen Starkstromleitungen. Autorisirte deutsche Bearbeitung von R. Apt. *Berlin: J. Springer*, 1900. x, 186 pp. 8°.

Charpentier (P.) Méthode générale de recherche des défauts d'un réseau de distribution. (L'éclair. électr. v. 26, pp. 365–370. *Paris*, 1901.)

Parr (G. D. A.) Practical electrical testing in physics and electrical engineering . . . *London: Longmans, Green & Co.*, 1901. vi, 1 l., 392 pp. 8°.

Eingrenzung von Fehlern in Seekabeln. (Elektrotechn. Ztschr. Jahrg. 23, pp. 10–12. *Berlin*, 1902.)

THREE-PHASE SYSTEM.

Cripple Creek district railway. [The three-phase system of electrical transmission.] (Street Railway Rev. *Chicago*, 1898. 4°. v. 8, pp. 707–710.)

Geipel (W.) Electric power and its application on the three-phase system to the Bristol wagon and carriage works (Electrical Engineer. *London*, 1898. 4°. (28) n. s., v. 22, pp. 363–366.)

Archibald (E. M.) Three-phase power transmission at St. Hyacinthe, Quebec, Canada. (Electr. World and Engineer. v. 33, pp. 869–871. *New York*, 1899.)

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Three-phase System, cont'd.

Bowie (A. J.) Three-phase four-wire low-tension systems. (Electr. World and Engineer. v. 33, pp. 840–842. *New York*, 1899.)

Kollert (J.) Isolationsmessungen an Dreileiteranlagen mit isolirtem Mittelleiter. (Elektrotechnische Zeitschr. *Berlin*, 1899. F°. v. 20, pp. 179–180.)

Michel (Louis). Emploi des courants triphasés dans les tramways électriques. (Rev. gén. d. chemins de fer & d. tramways. Année 22, pp. 442–444. *Paris*, 1899.)

Three-phase transmission for electric railway work in Maine. (Street Railway Jour. *New York*, 1899. 4°. v. 15, pp. 155–158.)

Adams (Alton D.) Extension of electrical supply from three-wire stations. (Electr. World and Engineer. v. 35, pp. 396–397. *New York*, 1900.)

Guye (Ch.-Eug.) Calcul graphique d'une ligne souterraine triphasée concentrique. (L'éclair. électr. v. 22, pp. 83–87. *Paris*, 1900.)

Aron (H.) Elektricitätszähler für Dreiphasenstrom mit vier Leitungen. (Elektrotechnische Ztschr. Jahrg. 22, pp. 215–216. *Berlin*, 1901.)

Emmet (W. L. R.) The distribution by the three-phase system and the operation of single-phase circuits by it. (Electr. World and Engineer. v. 38, pp. 985–987. *New York*, 1901.)

Gans (The) three-phase railway system. (Electr. World and Engineer. v. 37, pp. 433–435. *New York*, 1901.)

Ryan (John H.), *jr.* The three-wire system. (Engineer. v. 38, pp. 425–428. *Cleveland*, 1901.)

Russell (Alexander). The elements of three-phase theory. (Electrician. v. 47, pp. 639–643. *London*, 1901.)

Drehstromleitungen bei Dreieckschaltung der Stromempfänger. (Elektrotechn. Ztschr. Jahrg. 23, pp. 2–5; 30–33. *Berlin*, 1902.)

Weisshaar (Oskar). Ein Beitrag zur rechnerischen Behandlung des Dreiphasen-Motordiagrammes. (Elektrotechnische Ztschr. Jahrg. 22, pp. 943–947. *Berlin*, 1901.)

WAVES.

Hertz (H. R.) Untersuchungen ueber die Ausbreitung der elektrischen Kraft. *Leipzig*, 1894. 2 Aufl. 8°.

(In his Gesammelte Werke. Bd. 2.)

—— Electric waves; being researches on the propagation of electric action with finite velocity through space; English tr. by D. E. Jones, preface by Lord Kelvin. *London*, 1893. 8°.

Mizuno (T.) Note on tinfoil grating as a detector for electric waves. *Illus.* (Imperial univ. of Japan. College of sci. Jour. v. 9, pp. 15–25; 111–116. *Tokyo*, 1895–97.)

Ebert (C. H. R.) Magnetische Kraftfelder. Die Erscheinungen des Magnetismus, Elektromagnetismus und der Induktion dargestellt auf Grund des Kraftlinien-begriffes. 2 vols. xviii, 223 pp., 2 tables [folded]; xxviii, 2 l., pp. 229–499, 1 pl. *Leipzig: J. A. Barth*, 1896–7. 8°.

Bose (J. C.) Refraction of electric radiations, relations between index of, and the wave-length. (Roy. Soc. Proc., vol. 60, 1896. pp. 167–178.)

Boltzmann (Ludwig). Über vermeintlich irreversibele Strahlungsvorgänge. (Kön. preuss. Akad. d. Wissensch. Sitzungsb. 1898, pp. 182–187. *Berlin*, 1898.)

Clermont (A.) Transmission de l'électricité par mouvements ondulatoires. (Bull de la soc. de l'indust. minerale. *Saint-Etienne*, 1898. 8°. ser. 3, v. 12, pp. 481–500.)

Heen (Pierre de). Manifestations infra-électriques dans les diélectriques. Diagrs. 4 pl. (Acad. roy. de Belgique. Bulletins, sér. 3, v. 35, pp. 191–196. *Bruxelles*, 1898.)

—— Note sur le mécanisme de la décharge électrique d'un conducteur, produite par les radiations infra-électriques en général. Diagrs. (Acad. roy. de Belgique. Bulletins, sér. 3, v. 35, pp. 368–375. *Bruxelles*, 1898.)

—— Quelques observations sur les radiations infra-électriques et sur l'expérience de M. E. Villari. Diagrs. (Acad. roy. de Belgique. Bulletins, sér. 3, v. 35, pp. 784–794. *Bruxelles*, 1898.)

Villari (Emilio). Su una nota del prof. de Heen del Università di Liegi dal titolo "Quelques observations sur les radiations infra-électriques et sur les expériences de M. E. Villari. (R. accad. d. Lincei. Rendic. classe di sci. fis. sér. 5, v. 7, pt. 2, pp. 272–274. *Roma*, 1898.)

Heen (Pierre de). Quelques faits relatifs à la décharge produite par la radiation infra-électrique. Diagrs. (Acad. roy. de Belgique. Bulletins, ser. 3, v. 36, pp. 55–62. *Bruxelles*, 1898.)

Hemptinne (A. de). Actions des vibrations électriques sur quelques substances. 28 pp. (Acad. roy. de Belgique. Mém. cour. et autres mém. v. 55 [no. 5]. *Bruxelles*, 1896–98.)

Trowbridge (John). The waves that come from outer space. (Independent. *New York*, 1898. 8°. v. 50, pp. 1173–1175.)

Abbott (Arthur V.) Electrical radiation. (Electr. World and Engineer. v. 33, pp. 616–617; 701–702; 749–750; 802–803. *New York*, 1899.)

—— —— (Journal Western Society of Engineers. v. 4, pp. 195–218. *Chicago*, 1899.)

Glew (F. H.) A demonstration with wireless electric waves for actuating photographic apparatus and for photographing lightning in daylight. 1 pl. (Photographic Jour. v. 23, pp. 179–186. *London*, 1899.)

Gutton (G.) Recherches expérimentales sur le passage des ondes électriques d'un conducteur à un autre. (Annales de Chimie & de Physique. sér 7, v. 18, pp. 5–75. *Paris*, 1899.)

Heinke (C.) Über Wellenströme. (Physik. Zeitschr. Jahrg. 1, pp. 8–9. *Leipzig*, 1899.)

König (Walter). Ueber Methoden zur Untersuchung langsamer elektrischer Schwingungen. (Annalen d. Physik u. Chemie. n. s., v. 67, pp. 535–562. *Leipzig*, 1899.)

Morton (W. B.) On the propagation of damped electrical oscillations along parallel wires. (Physical Soc. of London. Proc. v. 16, pp. 281–289. *London*, 1899.)

Digitized by Google

Waves, cont'd.

Sommerfield (A.) Ueber die Fortpflanzung elektro-dynamischer Wellen längs eines Drahtes. (Annalen d. Physik u. Chemie. *Leipzig*, 1899. 8°. n. s., v. 67, pp. 233–290.)

Tallqvist (Hjalmar). Untersuchungen über elektrische Schwingungen. 110+70 pp. *Plates.* (Finska vetenskaps societeten. Acta, v. 23, no 3. *Helsingforsiæ*, 1899.)

"Uebersicht der Litteratur über primäre elektrische Schwingungen," pp. 105-110.

Turpain (A.) Recherches expérimentales sur les oscillations électriques. (Mém. Soc. de. sci. Phys. & naturelles de Bordeaux. sér. 5, v. 5. pp. 97–248. *Bordeaux*, 1899.)

Abraham (Max). Elektrische Schwingungen in einem frei endigenden Draht. (Annalen d. Physik. ser. 4, v. 2, pp. 32–61. *Leipzig*, 1900.)

Heen (Pierre de.) Les oscillations électrostatiques produites indépendamment du phénomène de Hertz; inductance electro-statique. *Diagrams, plate.* Acad. roy. de Belgique. Bull. ser. 3, 1900, Sciences, pp. 260–270. *Bruxelles*, 1900.)

Heinke (C.) Ueber Wellenstromenergie. (Verhandl. d. Vereins zur Beforderung des Gewerbfleisses. pt. 2. Abhandl. Jahrg. 79, pp. 115–126. *Berlin*, 1900.)

Mie (Gustav). Elektrische Wellen an zwei parallelen Drähten. (Annalen d. Physik. ser. 4, v. 2, pp. 201–249. *Leipzig*, 1900.)

Morton (W. B.) On some cases of propagation of electric oscillations along a number of parallel wires. (Lond., Edinb. and Dublin Philosoph. Maga. v. 50, pp. 605–616. *London*, 1900.)

Abraham (Max). Energie elektrischer Drahtwellen. (Annalen d. Physik. ser. 4, v. 6, pp. 217–241. *Leipzig*, 1901.)

Bernouilli ( ). A new oscillator for stationary electrical waves. (Electrician. v. 46, pp. 737–738. *London*, 1901.)

Electric wave transmission. (Engineering. v. 71, pp. 496–497. *London*, 1901.)

Fleming (J. A.) Electrical oscillations and electric waves. (Electrician. v. 46, pp. 514–516; 551–553; 588–591; v. 47, pp. 57–60; 180–182; 226–228; 382–383; 419–420; 446–448; 531–533. *London*, 1901.)

—— —— (Jour. Soc. of Arts. v. 49, pp. 69–84; 86–95; 97–112; 113–131. *London*, 1900–01.)

—— —— (Scientif. Amer. suppl. v. 51, pp. 21132–21133; 21140–21141; 21160–21161. *New York*, 1901.)

Kiebitz (Franz). Über die elektrischen Schwingungen eines stabförmigen Leiters . . . Giessen. *Leipzig: J. A. Barth*, 1901. 46 pp. 1 l. 8°.

Lamotte ( ). Recherches expérimentales sur les oscillations électriques d'ordre supérieur. (Annales de Chimie & de Physique. sér. 7. v. 24, pp. 205–287. *Paris*, 1901.)

—— —— (Jour. de Physique théor & appli. sér. 3, v. 10, pp. 589–597. *Paris*, 1901.)

Langsdorf (A. S.) A graphical method for analyzing distorted alternating current waves. (Phys. Rev. v. 12, pp. 184–190. *Lancaster, Pa.*, 1901.)

Lindman (Karl F.) Experimentaluntersuchung über die Metallreflexion der elektrischen Schwingungen. (Annalen d. Physick. ser 4, v. 4, pp. 617–637. *Leipzig*, 1901.)

Love (Augustus Edward Hough). The integrations of the equations of propagation of electric waves. *Illus.* (Roy. soc. of London. Philos. trans. v. 197, ser. A, p. 1–45. *London*, 1901.)

Pellat (H.) Sur un phénomène d'oscillation électrique. (Jour. de Phys. théor & appli. sér. 2, v. 10, pp. 471–475. *Paris*, 1901.)

Pierce (George). Indices of refraction for electric waves, measured by a modified radiomicrometer. (Lond., Edinb. & Dublin Philosoph. Maga. & Jour. of Sci. v. 51 (ser. 6, v. 1), pp. 179–198. *London*, 1901.)

—— Note on the double refraction of electric waves. (Lond., Edinb. & Dublin Philosoph. Maga. & Jour. of Sci. ser. 6, v. 1, pp. 548–551. *London*, 1901.)

Pupin (Michael Idvorsky). Electrical wave-transmission. (Technology quarterly, v. 14, pp. 89–91. *Boston*, 1901.)

—— Wave-transmission over non-uniform cables and long-distance air-lines. [With discussion.] (Transac. Amer. Inst. Electr. Engineers. v. 17, pp. 445–512. *New York*, 1901.)

Seibt (Georg). Zur Theorie des Multiplikators für schnelle elektrische Schwingungen. (Elektrotech Ztsch. Jahrg. 22 (1901), pp. 580–584. *Berlin* 1901.)

Sundell (A F.), *and* **Tallqvist** (Hj.) Ueber das Decrement elektrischer Schwingungen bei der Ladung von Condensatoren. (Annalen der Physik. ser. 4, v. 4, pp. 72–98. *Leipzig*, 1901.)

Becker (August). Interferenzröhren für elektrische Wellen. (Annalen d. Physik. ser. 4, v. 8, pp. 22–62. *Leipzig*, 1902.)

Bumstead (Henry A.) On the reflection of electric waves at the free end of a parallel wire system. (Amer. Jour. of Sci. v. 14, pp. 359–362. *New Haven*, 1902.)

Chant (C. A.) An experimental investigation into the "skin"-effect in electrical oscillators. (Lond., Edinb. & Dublin Philosoph Maga. ser. 6, v. 3, pp. 425–444. *London*, 1902.)

—— —— (American Journal of Science. ser. 4, v. 13, pp. 1–19. *New Haven*, 1902.)

Lamotte ( ) Sur les oscillations électriques d'ordre supérieur. (L'Éclairage électrique. v. 30, pp. 337–341. *Paris*, 1902.)

Lindman (Karl F.) Ueber stationäre elektrische Wellen. (Annalen d. Physik. ser. 4, v. 7, pp. 824–850. *Leipzig*, 1902.)

Pollock (J. A.), *and* **Vonwiller** (O. U.) Some experiments on electric waves in short wire systems, and on the specific inductive capacity of a specimen of glass. (Lond., Edinb. & Dublin Philosoph. Maga. ser. 6, v. 3, pp. 586–606. *London*, 1902.)

Schmidt (K. E. F.) Frequenzbestimmung langsamer elektrischer Schwingungen. (Annalen d. Physick. ser. 4, v. 7, pp. 225–236. *Leipzig*, 1902.)

Digitized by Google

Waves, cont'd.

Wildermuth (Karl). Ueber die Absorption elektrischer Schwingungen in Flüssigkeiten. (Annalen d. Physik. ser. 4, v. 8, pp. 212–226. *Leipzig*, 1902.)

—— *Velocity.*

Gould (B. A.) The velocity of the galvanic current in telegraph wires, in a report to Prof. A. D. Bache. *New Haven*, 1851. 8°.

Webster (Arthur Gordon). An experimental determination of the period of electrical oscillations. 1 pl. (Physical Rev. *New York*, 1898. 8°. v. 6, pp. 297–314.)

Cole (A. D.) The measurement of short electrical waves and their transmission through water cells. (Physical Rev. *New York*, 1898. 8°. v. 7, pp. 225–230.)

MacLean (G. V.) Velocity of electric waves in air. (London, Edinburgh and Dublin Philosoph. Maga. and Jour. of Sci. v. 48, pp. 115–131. *London*, 1899.)

—— —— American Journal of Science. ser. 4, v. 8, pp. 1–16. *New Haven*, 1899.)

Cohen ( ). Sur la vitesse de réaction électrique. (L'éclairage électr. v. 21, pp. 456–463. *Paris*, 1899.)

Barkla (Charles G.) The velocity of electric waves along wires. (Lond., Edinb. and Dub. Philosoph. Maga. and Jour. of Sci. ser. 6, v. 1, pp. 652–667. *London*, 1901.)

Hertzian Waves.

Righi (Auguste). Les ondes Hertziennes. (Congrès internat. de physique, 1900. Rapports. v. 2, pp. 301–324. *Paris*, 1900.)

Geitler (Josef), *Ritter von.* Notiz über complicirte Erreger Hertz'scher Schwingungen. Illus. (Kais. Akad. d. Wissensch. Math-naturwiss. Classe. Sitzungsb. v. 107, pt. 2a, pp. 869–880. *Wien*, 1898.)

—— (Annalen der Physik und Chemie. *Leipzig*, 1898. 8°. n. s., v. 66, pp. 999–1008.)

Hofe (C. [H.] von). *Ueber die von planparallelen Schichten elektrolytischer Substanz durchgelassene und reflektierte Intensität Hertz'scher Wellen. *Berlin : J. Sittenfeld*, 1898. 36 pp., 2 l. 4 tab. 8°.

Holzmueller ( ). Ueber die Hertzschen elektrischen Schwingungen und die damit zusammenhängende Reform der Physik. (Zeitschr. d. Vereines deutsch. Ingenieure. *Berlin*, 1898. 4°. v. 42, pp. 629–636.)

Tesla's (Mr.) Application of Hertz-wave transmission. (Electrical World. *New York*, 1898. F°. v. 32, p. 527.)

Murani (Oreste). Studio delle onde stazionarie di Hertz col mezzo di un coherer. (Rendiconti Ist. Lomb., serie 2, v. 31, pp. 995. *Milano*, 1898.)

Branly (Édouard). Une enveloppe métallique ne se laisse pas traverser par les oscillations hertziennes. (Jour. de physique théorique et appliquée. *Paris*, 1899. 8°. sér. 3, v. 78, pp. 24–27.)

—— Absorption des radiations hertziennes par les liquides. (Jour. de physique. sér. 3, v. 9, pp. 144–149. *Paris*, 1900.)

Pearson (Karl), *and* **Lee** (Alice). On the vibrations in the field round a theoretical Hertzian oscillator. Illus. plates. (Roy. Soc. of London. Philos. trans. v. 193, ser. A, pp. 159–188. *London*, 1900.)

Gutton (C.) Sur la propagation des oscillations hertziennes dans l'eau. (Jour. de physique théor. & appli. sér. 3, v. 10, pp. 752–756. *Paris*, 1901.)

Poincaré (H.) Sur les excitateurs et résonateurs hertziens. (L'éclair. électr. v. 29, pp. 305–307. *Paris*, 1901.)

—— La théorie de Maxwell et les oscillations Hertziennes. [*Chartres : Durand*, 1901?] 80 pp. 8°. (Scientia. Série physico-mathématique.)

Jackson (H. B.) On some phenomena affecting the transmission of electric waves over the surface of the sea and earth. (Electrical Rev. v. 51, pp. 297–299; 365–366. *London*, 1902.)

WIRING, CABLES, CONDUITS, ETC.

Vivares (H.) Los hilos de cobre y de bronce silizosos en los transmissiones eléctricas . . . lectura . . . traducida por G. Crespo y Martinez. *Mexico*, 1884. pm. 8°.

Boston (Mass.)—*Aldermen, Board of.* Majority and minority reports of the committee of the whole board of aldermen on the matter of granting the right to Henry E. Cobb, and others, to lay underground conduits for electric wires in the streets of Boston. *n. t. p.* 1888. xi, 133 pp. 8°. (Doc. 56.)

Russell (S. A.) Electric light cables and the distribution of electricity. *London*, 1892. 12°. (The specialists' series.)

United States.—*Electrical Commission of the District of Columbia.* Report of the electrical commission appointed to consider the location, arrangement and operation of electrical wires in the District of Columbia. *Washington : Govt. Prtg. Office*, 1892. 151 pp. 37 plans, 20 pl. cl. 8°. (52. Cong., 1 sess. H. ex. doc. 15.)

Cushing (H. C.), *jr.* Standard wiring for electric light and power as adopted by fire underwriters throughout the United States . . . *New York* [c. 1894]. 93 pp. 12°.

Noll (A.) How to wire buildings. 2 ed. *New York : C. C. Shelley*, 1894. 8°.

Drude (P.) Zur Theorie stehender elektrischer Drahtwellen. (Kön.-Sächs. Gesellsch. d. Wiss. Abhandl. 1896.)

Peschel (A.) Hilfsbuch fuer die Montage elektrischer Leitungen zu Beleuchtungs zwecken. Fuer Elektrotechniker, Monteure und Installateure zur praktischen Anlage und Behandlung des Leitungsmaterials. vi, 234 pp. ill. *Leipzig : O. Leiner*, 1896. F°.

Robb (R.) Electric wiring for the use of architects, underwriters, and the owners of buildings. vii, 183 pp., ill. *New York : Macmillan & Co.*, 1896. sq. 8°.

Wietz (H.) Die isolierten elektrischen Leitungsdrähte und Kabel ; ihre Erzeugung, Verlegung und Unterhaltung . . . *Leipzig : O. Leiner*, 1897. viii, 236 pp. 8°.

Appleyard (Rollo). The failure of german silver and platinoid wires [used for electrical wires]. (Philos. Mag. and Jour. of Science. ser. 5, v. 45, pp. 157–163. *London*, 1898.)

Digitized by Google

Wiring, cont'd.

Boston (Mass.)—*Wire Department.* Annual report (1897–1900). 4[–7.] *Boston*, 1898–1901. 8°.

Brophy (William). History of the solution of the wire problem in Boston. (City Government. *New York*, 1898. 4°. v. 5, pp. 26–30.)

Design (The) of piping for electric power houses. (Engineering Rec. *New York*, 1898. F°. v. 39, pp. 54–57.)

Bathurst (Fred.) Electric wiring practice. (Proc. Incorp. Assoc. of Municipal and County Engineers. *London*, 1899. 8°. v. 24, pp. 109–124.)

Entwurf zu Sicherheitsvorschriften für elektrische Mittelspannungs-Anlagen. (Elektrotechnische Zeitschr. Jahrg. 20, pp. 348–352. *Berlin*, 1899.)

Fennell (W.) Electric lighting undertakers and house wiring. (Electr. Engineer. (o. s., v. 30.) n. s., v. 24, pp. 262–263. *London*, 1899.)

Juellig (Max). Ueber die mechanische Beanspruchung elektrischer Luftleitungen, welche auf ungleich hohen Stützen ruhen. (Elektrotechnische Zeitschr. Jahrg. 20, pp. 886–889. *Berlin*, 1899.)

Leaf (H. M.) The internal wiring of buildings. *Westminster: A. Constable & Co.*, 1899. 4 p. l., 198 pp. 12°.

Lohmann (R. W.) Interior alternating current wiring. (Electr. World and Engineer. v. 34, pp. 612–614. *London*, 1899.)

Maycock (W. P.) Electric wiring, fittings, switches and lamps . . . *London: Whittaker & Co.*, 1899. xvi, 446 pp., 4 pl. 16°.

The wiring rules of the Institution of Electrical Engineers are incorporated herewith.

O'Gorman (Mervyn). Concentric wiring. (Electr. World and Engineer. v. 34, pp. 228–231. *New York*, 1899.)

Pigg (J.) Rules for the regulation of the wiring of premises for connection to public supply mains. (Electrical Engineer. *London*, 1899. 4°. n. s., v. 23, pp. 138–139; 172–175; 202–203.)

—— Rules for the regulation of the wiring of premises for connection to public supply mains. (Jour. Institut. of Electr. Engineers. v. 28, pp. 122–165. *London*, 1899.)

Reed (Warren B.), *and* **Reed** (Lyman C.) Protection of interior wiring from high potential currents. (Electr. World and Engineer. v. 34, pp. 649–651. *New York*, 1899.)

Teichmueller (J.) Die elektrischen Leitungen. Ein Lehrbuch für Studierende. Teil 1. *Stuttgart: F. Enke*, 1899. 1 v. 4°.

[**Brophy** (W.)] [Report to the mayor of an investigation of the operations of the Electrical Construction Division of the Public Buildings Department, advising its discontinuance.] *n. t. p.* [1900.] 16 ff. 4°. (Boston Wire Dept.)

Typewritten.

Crackanthorpe (Montague). The dangers of electric wiring. (Amer. Architect and Building News. v. 67, pp. 21–22. *Boston*, 1900.)

General Electric Co., Schenectady, N. Y. Instruction book, no. 8,148. The Edison three-wire system. *Schenectady, N. Y.*, 1900. 1 p. l., 5–60 pp. 12°.

Hanappe (Saturnin). Application de la méthode graphique à l'étude des principales canalisations à courante alternatifs et polyhasés. (Rev. univers. des mines. sér. 3, v. 51, pp. 42–69. *Liège*, 1900.)

—— —— (L'éclairage électr. v. 22, pp. 241–249; 283–289. *Paris*, 1900.)

Herzog (Josef), *and* **Feldmann** (Clarence). Ueber die Erwärmung elektrischer Leitungskabel. (Elektrotechnische Ztsch. Jahrg. 21, pp. 783–788. *Berlin*, 1900.)

Keasbey (E. Q.) The laws of electric wires in streets and highways. *Chicago: Callaghan & Co.*, 1900. xliv, 358 pp. 2. ed. 8°.

Liègeois (Édouard). Abaques pour le montage des lignes électriques aériennes. (Génie civil. v. 37, pp. 25–27. *Paris*, 1900.)

Maver (William), *jr.* Electric cables for high-tension service. (Cassier's Maga. v. 18, pp. 467–479. *New York*, 1900.)

Olivetti (Camillo). Sugli apparecchi industriali a filo caldo. (Atti dell' assoc. elettrotecn. italiana. v. 4, pp. 202–209. *Torino*, 1900.)

Pierard ( ) La protection des lignes télégraphiques et téléphoniques contre les conducteurs à haut potentiel. (Bull. mensuel de la soc. belge d'électriciens. v. 17, pp. 279–286. *Bruxelles*, 1900.)

Practical notes on electric mains. By a mains engineer. (Electr. Engineer. v. 32 (n. s., v. 26), pp. 726–727; 839–841; 872–873; 905–906; v. 33 (n. s., v. 27), pp. 42–43; 78–79; 114–115; 188–190; 371–373; 451–453; 589–590. *London*, 1900–'01.)

Broadbent (F.) Notes on wiring rules. 7 tab. (Jour. Inst. of Electr. Engineers. v. 30, pp. 1130–1150. *London*, 1901.)

—— —— (Electrician. v. 46, pp. 940–942. *London*, 1901.)

Carpenter (R. C.) Holding capacity of anchors for electric wiring poles. 1 pl. (Sibley Jour. of Engineering. v. 15, pp. 293–297. *Ithaca*, 1901.)

Consumers' (The) department of a central station. (Electr. Engineer. v. 33 (n. s., v. 27), pp. 510–514. *London*, 1901.)

Crehore (A. C.) Currents and potentials on submarine cables produced by sine-wave electromotive forces. (Phys. Rev. v. 12, pp. 340–352. *Lancaster, Pa.*, 1901.)

Donner (W. H.) Wiring for electric light. (Sci. and Industry. v. 6, pp. 349–350. *Scranton, Pa.*, 1901.)

Electric cable making in Great Britain and on the continent. (Cassier's Maga. v. 20, pp. 194–208. *New York*, 1901.)

Hopewell (Charles F.) The practicability of placing high and low-potential wires in separate ducts in a combined conduit system. (Electr. Rev. v. 39, pp. 763–764. *New York*, 1901.)

Jamieson (Andrew). Dangers from trolley wires and their prevention. (Engineering. v. 72, pp. 500–502. *London*, 1901.)

Loppé ( ) Note sur l'établissement des canalisations aériennes. (Bull. Soc. internat. d. électriciens. sér. 2, v. 1, pp. 455–484. *Paris*, 1901.)

Digitized by Google

Wiring, cont'd.

Perrine (F. A. C.), *and* **Baum** (F. G.) The use of aluminium line wire and some constants for transmission lines. [With discussion.] (Transac. Amer. Inst. Electr. Engineers. v. 17, pp. 345–384. *New York*, 1901.)

Quin (The) patent safety device for protecting overhead trolley wires. (Electr. Engineer. v. 33 (n. s., v. 27), pp. 330–332. *London*, 1901.)

Schaefer (Oscar). High-tension cables. (Electrician. v. 48, pp. 178–180. *London*, 1901.)

Sprague Electric Company, New York. Interior conduit. Catalogue 404. [*New York: the Company*, 1901.] 144 pp. sq. 8°.

Trolley wire protection in Santiago de Chile. (Electr. Rev. v. 49, pp. 502–503. *London*, 1901.)

Wordingham (C. H.) Wiring rules. (Electrician. v. 48. pp. 84–85. *London*, 1901.)

Burne (Oldbury). Some hints on overhead construction. (Journ. Inst. of Electr. Engineers. v. 31, pp. 420–427. *London*, 1902.)

Charpentier ( ). Note sur les essais des cables électriques. (Bull. Soc. internat. d. électriciens. sér. 2, v. 2, pp. 204–234. *Paris*, 1902.)

Clinton (W. C.) Electric wiring: a primer . . . *London: J. Murray*, 1902. viii, 179 pp. 12°. Murray's home and school library.)

Conduits for telephone work. General contract and specifications. (Electr. World and Engineer. Suppl., June 21. v. 39, pp. 1123–1134. *New York*, 1902.)

Determining wire sizes for alternating-current motor circuits. (Amer. Electrician. v. 14, pp. 292–295. *New York*, 1902.)

Discussion sur les canalisations électriques. (Bull. soc. internat. d. électriciens. sér. 2, v. 2, pp. 104–135. *Paris*, 1902.)

Fletcher (G. E.) Air-speed cables: their treatment and use. (Practical Engineer. v. 25, pp. 488–490. *London*, 1902.)

Gesing (P.) Praktische und schnelle Berechnung der Widerstandsregulatoren für Lichtleitungen. (Elektrotechn. Ztschr. Jahrg. 23, pp. 293–294. *Berlin*, 1902.)

Holitscher (Paul). Ueber die Raumausnutzung von Litzen. (Elektrotech. Ztsch. Jahrg. 23, pp. 673–675. *Berlin*, 1902.)

Loppé ( ). Note au sujet de la détermination des portées des lignes aériennes. (Bull. Soc. internat. d. électriciens. sér. 2, v. 2, pp. 237–241. *Paris*, 1902.)

Savage (H.) Methods of eliminating corrections for the leads, etc., in cable testing. (Electr. Rev. v. 50, pp. 86–88; 124–125. *London*, 1902.)

Songel (A.) Beitrag zur Berechnung von Speiseleitungen elektrischer Bahnanlagen. (Elektrotechn. Ztschr. Jahrg. 23, pp. 335–338. *Berlin*, 1902.)

—— Ueber Sicherungen in verzweigten Leitungsanlagen. (Elektrotechn. Ztschr. Jahrg. 23, pp. 381–383. *Berlin*, 1902.)

Sochinski (Bruno). Einige Konstruktionen zur graphischen Berechnung von Leitungsnetzen. (Elektrotechn. Ztschr. Jahrg. 23, pp. 359–362. *Berlin*, 1902.)

Ward (John C. A.) Practical notes on continuous-current distributing mains. (Jour. Inst. of Electr. Engineers. v. 31, pp. 833–852. *London*, 1902.)

Underground Wiring, etc.

Franklin Institute of the State of Pennsylvania. International electrical exhibition. 1884. Report of examiners of Section xviii, (Sect. ii, class iv of the catalogue). Underground conduits. *Philadelphia*, 1885. pm. 8°.

Vallée (A.) Conduite souterraine à rainure latérale. (Rev. tech. année 23, pp. 151–155. *Paris*, 1902.)

Baltimore (Md.)—*Electrical Commission.* Report . . . on a general subway system to be owned by the city of Baltimore. [*Baltimore: Press of the J. D. Lucas Prtg. Co.*, 1896.] 197 pp. 38 diagrs. in pocket. 8°.

Picou (R. V.) Canalisations électriques, lignes aériennes industrielles. *Paris: Gauthier-Villars* [1898?]. 172 pp. 12°. (Encyclopédie Scientifique des aide-mémoire. [Section de l'ingénieur.])

Ferguson (L. A.) Underground electrical construction. (Electr. World and Engineer. v. 33, pp. 877–878. *New York*, 1899.)

Sewall (C. H.) Underground conduits for electrical conductors. (Electr. Engineering and Telephone Maga. v. 14, pp. 190–195. *Chicago*, 1899.)

Brown (Wardell E.) Underground electrical construction for light and power. (Sci. and Industry. v. 6, pp. 81–88; 122–128. *Scranton*, 1901.)

Harris (W. R.) Underground conduit construction. (Amer. Telephone Jour. v. 6, pp. 37–40. *New York*, 1902.)

Jackson (George W.) Scope, extent and construction of the underground conduits of the Illinois Telephone and Telegraph Co. in Chicago. 3 pl. (Jour. West. Soc. of Engineers. v. 7, pp. 479–500. *Chicago*, 1902.)

Stewart (A. T.) Underground cable laying. (Electr. Engineer. v. 36 (n. s., v. 30), pp. 152–155. *London*, 1902.)

SECTION IV.

APPLICATIONS.

HISTORY.

Finlaison (John). An account of some remarkable applications of the electric fluid to the useful arts, by A. Bain, with a vindication of his claim to be the first inventor of the electro-magnetic printing telegraph, and also of the electro-magnetic clock. *London: Chapman & Hall*, 1843. 2 p. l. 127 pp., 4 diag. 8°.

Klasen (L.) Die Entwicklung der Elektrotechnik zu ihrer gegenwärtigen Ausgestaltung . . . *Wien: Spielhagen & Schurich*, 1901. 3 p. l., 107 pp. 8°.

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Applications, History, cont'd.

Badoureau (A.) L'électricité et ses applications depuis 1881. (Rev. scientifique. *Paris*, 1898. 4°. sér. 4, v. 10, pp. 769–776.)

Elektrotechnik (Die) in Frankfurt am Main. Festschrift zur 6. Jahresversammlung des Verbandes deutscher Elektrotechniker in Frankfurt a. M. 2–5 Juni, 1898. *Frankfurt a. M.: Gebrüder Knauer*, 1898. 1 p. l., v. 1 l., 251 pp., 6 plans, 22 pl. 4°.

Reyval (J.) Le développements des applications de l'électricité en 1899. (L'éclairage électr. v. 22, pp. 92–96. *Paris*, 1900.)

GENERAL WORKS.

Du Moncel (T. A. L.) Exposé des applications de l'électricité. 2e éd. *Paris*, 1856–57. 3 v. pl. 8°.

Gloesener (M.) Traité général des applications de l'électricité. *Paris*, 1861. v. 1. 8°.

Kuhn (Carl). Handbuch der angewandten Elektricitätslehre; mit besonderer Berücksichtigung der theoretischen Grundlagen. (KARSTEN, G. Allg. Encyk. d. Phys., v. 20.) *Leipzig*, 1866. il. pl. 8°.

Baille (J.) L'électricité. (BIBL. d. merv.) *Paris*, 1868. pl. il. 12°.

—— Wonders of electricity. Translated from the French; edited with numerous additions by J. W. Armstrong. *New York: Scribner, Armstrong & Co.*, 1872. 12°.

Du Moncel (T. A. L.) Exposé des applications de l'électricité. 3 ed. *Paris*, 1872–78. 5 v. 8°.

Prescott (George Bartlett). The speaking telephone, electric light, and other recent electrical inventions. *New York: D. Appleton & Co.*, 1879. 1 p. l., ii, 1 l., 612 pp., 1 pl. 8°.

Hospitalier (É.) La physique moderne; Les principales applications de l'électricité. 2. ed. *Paris*, 1882. 8°.

—— Modern applications of electricity; translated and enlarged by Julius Maier. *New York*, 1882. 8°.

Grollet (Camille). L'électricité: ses applications pratiques. *Paris*, 1883. 16°.

Hauck (W. Ph.) Die Grundlehren der Elektricität, mit besonderer Rücksicht auf ihre Anwendungen in der Praxis. *Wien*, 1883. 12°. (Elektrotechnische Biblio., Band 9.)

Dynamic electricity; its modern use and measurement, chiefly in its application to electric lighting and telegraphy: including:—I. Hopkinson (John). Some points in electric lighting. II. Schoolbred (James N.) On the measurement of electricity for commercial purposes. III. Day (R. E.) Electric light arithmetic. *New York*, 1884. 16°. (Van Nostrand's science series.)

Schwartze (T.), **Japing** (E.), *and* **Wilke** (A.) Die Elektricität; eine . . . Darstellung der Grundgesetze; sowie der Anwendungen der Elektricität zur Kraftübertragung, Beleuchtung, Galvanoplastik, Telegraphie und Telephonie. *Wien: A. Hartleben*, 1884. 159 pp. 8°.

Cadiat (E.), *and* **Dubost** (L.) Traité pratique d'électricité industrielle. *Paris*, 1885. 8°.

Figuier (G. L.) L'électricité. *Paris: Lib. illustrée* [1885?]. 1 l., iii, 644 pp. 4°. (Les nouvelles conquêtes de la science. v. 1.)

Fiske (B. A.) Electricity in theory and practice; or, The elements of electrical engineering. 3. ed. *New York*, 1884. 8°.

Hospitalier (É.) L'électricité dans la maison. *Paris*, 1885. 8°. (Biblio. de la nature.)

Urbanitzky (Alfred von). *Ritter*. Electricity in the service of man . . . Edited with copious additions by R. Wormell. With an introduction by John Perry. *London. Cassell & Co.*, 1886. xxx. 1 l., 859 pp. 8°.

—— Electricity in the service of man . . . the applications of electricity in modern life; from the German . . . ed. . . . by R. Wormell . . . *London*, 1890. 8°.

Neumayer (A.) Die Laboratorien der Elektro-Technik und deren neuere Hilfsapparate . . . *Wien*, 1887. 12°.
(Elektro-tech. Bibl., Bd. 33.)

Rohrbeck (E.), *and* **Nippoldt** (W. A.) Vademecum für Elektrotechniker . . . *Halle a. Salle: W. Knapp* [1887–94]. 7 v. 16°.
(Jahrgang des Kalenders fur Elek. techn. 4–10.)

Fiske (Bradley A.) Electricity in theory and practice; or, The elements of electrical engineering. 5. ed. 270 pp., 5 pl. *New York: D. Van Nostrand*, 1888. 8°.

Krebs (Adolph). Elemente der Electrotechnik. (In his Lehrbuch der Induktionselektricität. *Stuttgart*, 1889. 8°. pp. 187–295.)

Beaumont (W. W.) [*and others*]. Practical electrical engineering. A complete treatise on the construction and management of electrical apparatus as used in electric lighting and the electric transmission of power. *London: Biggs & Co.* [189–]. 2 v. 4°.

Kennelly (A. E.), *and* **Wilkinson** (H. D.) Practical notes for electrical students. v. 1. *London*, 1890. 8°.
(Electrician series.)

Maycock (W. P.) Practical electrical notes and definitions . . . 2. ed. *London*, 1890. 48°.

Tunzelmann (G. W. de). Electricity in modern life. *London* [1890]. 12°.
(Contemp. sci. ser. 2.)

Walker (S. F.) Electricity in our homes and workshops. 2. ed. *London*, 1890. 16°.

Brackett (C. F.), *and others*. Electricity in daily life: a popular account of the applications of electricity to everyday uses. *New York*, 1891. 8°.

Desmond (C.) Electricity for engineers. Rev. ed. *Chicago*, 1891. 2 v. in 1. 12°.

Slingo (W.), *and* **Brooker** (A.) Electrical engineering for electric light artizans and students ... new ed. *London*, 1891. 12°.

—— —— *London: Longmans, Green & Co.*, 1898. vi, 2 l., 780 pp. rev. and enlarg. ed. 12°.

Ayrton (W. E.) Practical electricity . . . 6. ed. *London*, 1892. 12°.

Grawinkel (C.), *and* **Strecker** (K.) Hilfsbuch für die Elektrotechnik . . . 3. Aufl. *Berlin: Jules Springer*, 1893. x, 642 pp. 12°.

—— —— *Berlin: J. Springer*, 1898. x, 696 pp. 5. ed. 8°.

Digitized by Google

Applications, General Works, cont'd.

Kittler (E.) Handbuch der Elektrotechnik. 1. Bd., 2. Aufl. *Stuttgart*, 1892. 8°.

Minel (P.) Introduction à l'électricité industrielle. *Paris* [1893]. 2 v. 12°.

(Encycl. sci. d. aide-mémoire. Sect. de l'ingén.)

Munro (J.), *and* **Jamieson** (A.) A pocket book of electrical rules and tables . . . 9. ed. *London*, 1893. obl. 48°.

Bahia (M. B.) Curso de electrotecnica de la Escuela Profesional Superior. v. 6. *Buenos Aires: Compañia Sud. Amer. de Billetes de Banco.* 1894. 8°.

(Argentine Republic. Direc. Gen. de Correos y Telegrafos.)

Crocker (F[rancis] B.), **Benedikt** (W. M.), *and* **Ormsbee** (A. F.) Electric power in factories and mills. A paper presented at the twelfth general meeting of the American Institute of Electrical Engineers . . . 1895. (With discussion.) *n. p.* [1895?] pp. 297–323. 8°.

Repr.· Transactions Amer. Inst. Electr. Eng., v. 12.

Ferguson (Louis A.) Electrical engineering in modern central stations. (In: University of Wisconsin. Bulletin. Engineering series. *Madison*, 1896. 8°. v. 1, pp. 227–259.)

Macdonald (J. H. A.) On electricity in the dwelling. (Roy. Scottish Soc. of Arts. Trans. v.14, pp. 93–136. *Edinburgh*, 1896.)

Créchet (C.) L'énergie électrique; notions élémentaires d'électricité industrielle . . . *Paris: B. Tignol* [1897]. viii, 334 pp. 8°.

Erhard (T.) Einführung in die Elektrotechnik: die Erzeugung starker elektrischer Ströme und ihre Anwendung zur Kraftübertragung. *Leipzig: J. A. Barth*, 1897. vi, 183 pp. 8°.

Feussner (K.) Die Ziele der neueren elektrotechnischen Arbeiten der Physikalisch-Technischen Reichsanstalt, pp. 115–146. *Stuttgart: F. Enke*, 1897. 4°.

(Samm. elektro.-tech. Vort. Bd. 1. 3 Hft.)

Graetz (L.) Die Elektricität und ihre Anwendungen; ein Lehr- und Lesebuch. 6. Aufl. xxii, 556 pp. ill. *Stuttgart: J. Engelhorn*, 1897. 8°.

—— —— *Stuttgart: J. Engelhorn*, 1898. xii, 584 pp. 7. ed. 8°.

Sammlung elektrotechnischer Vorträge . . . hrsg. von E. Voit. 1 Bd. 1–8 Heft. *Stuttgart: F. Enke*, 1897–98. 4°.

Graffigny (H. de). Industrial electricity, translated . . . and edited by A. G. Elliott. *London: Whittaker*, 1898. viii, 152 pp. 12°.

(Electro-mechanical ser. v. 1.)

Hoppe (O.) Elementarer praktischer Leitfaden der Elektrotechnik in technisch-wissenschaftlichem Zusammenhange mit der Maschinen- Berg- und Hütten-Technik, aufgebaut auf der technischen Mechanik als der gemeinsamen Grundlage für das Gesamtgebiet der Technik und der erklärenden Naturwissenschaften für Techniker und Nichttechniker. *Essen: G. D. Baedeker*, 1898. xiv, 175 pp. 8°.

Richard (G.) Applications mécaniques de l'électricité. (L'éclairage électrique. v. 16, pp. 497–504; v. 17, pp. 261–271; v. 18, pp. 281–290; v. 19, pp. 15–23, 481–489; v. 20, pp. 81–89, 241–253; v. 21, pp. 361–368; v. 22, pp. 328–336; v. 25, pp. 143–150; v. 26, pp. 205–212; v. 27, pp. 103–112; v. 29, pp. 41–48; v. 31, pp. 413–423. *Paris*, 1898–1902.)

Schmidt (*Dr.* K. E. F.) Experimental-Vorlesungen über Elektrotechnik für Mitglieder der Eisenbahn- und Post-Verwaltung, Berg- und Hüttenbeamte, Angehörige des Baufaches . . . *Halle a S.: W. Knapp*, 1898. viii, 430 pp., 1 l., 3 tab. 8°.

Wilke (A.) Die Elektrizität, ihre Erzeugung und ihre Anwendung in Industrie und Gewerbe allgemeinverständlich dargestellt. 3. Aufl. *Leipzig: O. Spamer*, 1898. vii, 637 pp. 8°.

Ferraris (G.) Lezioni de elettrotecnica dettate nel R. Museo Industriale Italiano in Torino. Vol. I. *Torino: Roux Frassati e Co.*, 1899. 1 v. 8°.

Janet (P.) Premiers principes d'électricité industrielle. Piles, accumulateurs, dynamos, transformateurs. *Paris: Gauthier-Villars*, 1899. x, 280 pp. 3. ed. 8°.

Vogel (W.) Die Elektrizität in Gewerbe und Industrie. Grundzüge für die Praxis über den Ausbau und den Betrieb elektrischer Licht- und Kraftanlagen. *Leipzig: B. F. Voigt*, 1899. viii, 136 pp. 8°.

Abbott (Arthur Vaughan). Electrical engineering for architects. (Inland Architect. Suppl. v. 34, pp. 17–23. January, 1900. *Chicago*, 1900.)

General Electric Company. Industrial applications of electricity. *Schenectady, N. Y.: Gen. Elect. Co.*, 1900. 50 pp. 4°.

Graetz (L.) Die Elektricität und ihre Anwendungen. *Stuttgart: J. Engelhorn*, 1900. xiv, 590 pp. 8. ed. 8°.

Janet (P.) Leçons d'électrotechnique générale, professées à l'Ecole supérieure d'électricité. *Paris: Gauthier-Villars*, 1900. ix, 614 pp. 4°.

Note sur l'enseignement de l'électricité industrielle à l'universite de Grenoble. (Rev. internat. de l'enseignement. v. 39, pp. 28–32. *Paris*, 1900.)

Pechan (J.) Leitfaden der Elektromaschinentechnik mit besonderer Berücksichtigung der elektrischen Beleuchtung für Vorträge sowie zum Selbstunterricht für angehende Elektrotechniker, Maschinenwärter, Mechaniker . . . *Leipzig: F. Deuticke*, 1900. iv, 1 l., 242 pp. 2. ed. 8°.

Perry (John). Is electrical engineering to remain a profession, or is it to become a trade? (Jour. Inst. of Electr. Engineers. v. 30, pp. 45–71. *London*, 1900.)

Preece (*Sir* W. H.) The relations between electricity and engineering. Being the "James Forrest" lecture . . . *London: Inst. Civ. Eng.*, 1900. 20 pp. 8°.

Excerpt: Proc. Inst. Civ. Eng. v. 142, pt. 4.

Ferraris (Galileo). Wissenschaftliche Grundlagen der Elektrotechnik . . . Deutsch hrsg. von L. Finzi. *Leipzig: B. G. Teubner*, 1901. xii, 358 pp. 8°.

Nicolson (John T.) On the training of electrical engineers. (Jour. of the Inst. of Electr. Engineers. v. 30, pp. 773–786. *London*, 1901.)

Stoeckhardt (E.) Lehrbuch der Elektrotechnik. Zum Gebrauche beim Unterricht und zum Selbststudium. *Leipzig: Veit & Co.*, 1901. xiv, 386 pp. 8°.

Digitized by Google

Applications, General Works, cont'd.

Vivares (H.) Les phénomènes électriques et leurs applications... *Paris: G. Carré & C. Naud*, 1901. vi, 574 pp., 1 l., 1 map. 8°.
(Bibliothèque technologique.)

Walsh (George E.) Bleaching by electricity. (Electr. Rev. v. 38, p. 752. *New York*, 1901.)

Behrend (B. A.) Alternating current engineering. (Cassier's Maga. v. 22, pp. 61–78. *New York*, 1902.)

Elektrotechnischen (Die) Lehrinstitute Deutschlands... *Steglitz-Berlin: Litterarische Monatsbericht*, 1902. 48 pp. 8°.

Osborne (Marshall). The lighting and driving of textile mills by electricity. (Jour. Inst. of Electr. Engineers. v. 31, pp. 1273–1280. *London*, 1902.)

Turpain (Albert). Les applications pratiques des ondes électriques. Télégraphie sans fil. Télégraphie avec conducteur. Éclairage commande à distance. *Paris: C. Naud*, 1902. 2 p. l., 412 pp. 8°.
(Bibliothèque technologique.)

Austria-Hungary.

Honigmann (Emil). Die Lage der Starkstromindustrie in Oesterreich-Ungarn. Ein Rückblick aufs Jahr 1899. (Elektrotechnische Zeitschr. Jahrg. 21, pp. 115–120. *Berlin*, 1900.)

Cape of Good Hope.

Cape of Good Hope.—*Treasury Department.* Report of the government electrician and inspector under the electric lighting and power act of 1895. *Cape Town*, 1897. F°. (G. 71–'97.)

China.

Crocker (F. B.) Electrical notes in China. (Electr. World & Engineer. v. 33, pp. 842–843, 876–877; v. 34, pp. 10–11, 53–54. *New York*, 1899.)

Germany.

Entwicklung (Die) der Elektrotechnik in Deutschland. (Archiv f. Post u. Telegraphie. no. 15, pp. 697–706. *Berlin*, 1899.)

Entwickelung (Die) elektrotechnischen Industrie in Deutschland. (Schilling's Jour. f. Gasbeleuchtung. Jahrg. 44, pp. 117–118. *München*, 1901.)

Kaiser (Carl). The prosperity of the electrical industry in Germany. (Electr. Rev. v. 36, pp. 131–132. *New York*, 1900.)

Great Britain.

Electrical development in the United Kingdom. (Engineer. v. 89, pp. 223–224. *London*, 1900.)

Italy.

Bignami (Enrico). Electrical progress in Italy during 1899. (Electr. Rev. v. 36, pp. 235–236. *New York*, 1900.)

Mexico.

Mexico.—*Ministeria de Fomento.* Noticia sobre las aplicaciones de la electricidad en la republica Mexicana. *Mexico*, 1889. 172 pp., 34 plans. 8°.

Arispe (Rafael R.) Estadistica de la aplicaciones de la electricidad en la republica Mexicana. *México: J. A. Vera y Cª.*, 1900. 2 p. l., 7–160 pp., 1 l. hf. lea. 8°. (Mexico. Expos. Univ. e Internac. de Paris en 1900, Comision Mex. para la.)

Russia.

Lodian (L.) Gas and electricity in Russia and Siberia. (Plumbers' Trade Jour. v. 27, pp. 206–208. *New York*, 1900.)

South America.

King (Charles P.) The status of the electrical industry in South America. (Electr. Rev. v. 36, pp. 237–238; 270–271. *New York*, 1900.)

United States.

Guilbert (C. F.) American electrical engineering standardization. (Electr. World & Engineer. v. 35, pp. 321–323. *New York*, 1900.)

Delmas (Marcel). Notes de voyage sur le développement des applications de l'électricité aux États-Unis et au Canada. (Génie civil. v. 34, pp. 333–335; 349–352; 365–368; 383–387; 406–409; 422–425. *Paris*, 1899.)

Flood (Thomas W.) Electrical statistics of Boston. Abstract of the annual report for 1898. (Electr. Rev. v. 35, p. 99. *New York*, 1899.)

Foote (Allen R.) Electrical industries in the state of New York. *Washington: Govt. Prtg. Office*, 1894. v. 237–272 pp. pap. 4°. (*U. S. Census Office. 11. census.*)

Semenza (Guido). Note sulle industrie elettriche negli Stati Uniti. (Atti dell' assoc. elettrotechn. italiana. v. 5, pp. 1–35. *Torino*, 1901.)

ACCIDENTS.

Anleitung zur ersten Hülfeleistung bei Unfällen in elektrischen Betrieben. (Elektrotechnische Zeitschr. Jahrg. 20, pp. 728. *Berlin*, 1899.)

Kolben (Alfred). Ueber einen Unfall mit niedrig gespanntem Wechselstrom. (Elektrotechnische Zeitschr. Jahrg. 21, pp. 133–134. *Berlin*, 1900.)

Mesures de sécurité à prendre pour les installations électriques à haute tension, imposées par l'Association des Ingénieurs électriciens allemands. (Bull Soc. belge d'électriciens. v. 16, pp. 105–119. *Bruxelles*, 1900.)

Penné (H.) Dangers que peuvent courir les sapeurs-pompiers durant l'extinction d'un incendie où l'on se trouve en présence de forts courants electriques. (Cong. internat. d. sapeurs-pompiers à Paris. Août, 1900. Compte-rendu. pp. 72–79. *Versailles*, 1900.)

Witz (Aimé). Les victimes de l'électricité. (Rev. d. questions scientif. sér. 2, v. 17, pp. 435–478. *Louvain*, 1900.)

Jamieson (Andrew). Dangers from trolley wires and their prevention. 1 p. l. (Jour. Inst. of Electr. Engineers. v. 31, pp. 76–89. *London*, 1901.)

——. Dangers from electric trolley wires and other aerial conductors: How they are guarded against in Great Britain. (Cassier's Maga. v. 21, pp. 306–316. *New York*, 1902.)

Aspinwall (F. P.), *and* **Trotter** (A. P.) Death and injury from electric shocks. [Two papers.] (Engineering news and Amer. railway journ. v. 48, pp. 85–88. *New York*, 1902.)

Digitized by Google

IN AGRICULTURE.

Kauksky (K.) Die Elektrizität in der Landwirthschaft. (Neue Zeit. Jahrg. 19, v. 1, pp. 565–572. *Stuttgart*, 1901.)

IN THE ARMY.

Waechter (F.) Die Anwendung der Elektricität für militärische Zwecke. *Wien*, 1883. (Elektro-technische Bibliothek, Band 15, bd. with Bd. 9.)

Anderson (George L.) Electricity and its applications in artillery practice. *Washington: Govt. Prtg. Office*, 1893. 65 pp. 8°. (*U. S. Adj.-Gen. Offi. Artill. circ. B*, 1893.)

Grier (Thomas G.) The use of electricity in the Spanish-American War. (Electrical Engineering and Telephone Maga. *Chicago*, 1898. 8°. v. 12, pp. 129–136.)

—— —— (Electrical World. v. 32, pp. 390–392. *New York*, 1898. F°.)

ELECTROCHEMISTRY.

History.

Engelhardt (Victor). Entwicklung und Zukunft der technischen Elektrochemie. (Zeitschr. d. oesterr. Ingenieur- u. Architekten-Vereines. Jahrg. 51, pp. 293–301. *Wien*, 1899.)

Johnston (R. H.) The development of electrochemistry. (School of Mines Quar. v. 23, pp. 262–280. *New York*, 1902.)

Muller (P. Th.) Travaux de la Société allemande d'électrochemie. (L'Éclairage Électrique. *Paris*, 1898. 4°. v. 16, pp. 93–105; 17, pp. 105–108; 310–313; 403–407; 442–447.)

Oettel (F.) Die Entwickelung der elektrochemischen Industrie. (In: Sammlung chemischer und chemisch-technischen Vorträge. *Stuttgart*, 1896. 8°. Bd. 1, pp. 89–120.)

Ostwald (W.) Electrochemie; ihre Geschichte und Lehre. *Leipzig*, 1896. 8°.

Perkin (F. Mollwo F.) Advancement of electrical chemistry. (Nature. v. 62, pp. 138–139, 428–430. *London*, 1900.)

Fortschritte (Die) der Electrochemie und Elektrometallurgie wahrend der letzten 25 Jahre. (Elektrochemische Zeitschr. *Berlin*, 1898. 4°. Jahrg. 5, pp. 169–174.)

Fortschritte der angewandten Elektrochemie und der Acetylen-Industrie, von F. Peters. 1898. *Stuttgart*, 1899. 12°.

Borns (H.) The progress of electro-chemistry in 1898. (Engineering and Mining Jour. v. 68, pp. 190–191; 220; 247. *New York*, 1899.)

Kershaw (John B. C.) Les industries électrochimiques et électrométallurgiques en 1899. (Moniteur scientif-Quesneville. sér. 4, v. 14, pp. 209–217. *Paris*, 1900.)

Krueger (M.) Die Elektrochemie im Jahre 1899. (Elektrochemische Zeitschr. Jahrg. 6, pp. 229–236. *Berlin*, 1900.)

—— Eie Elektrochemie im Jahre 1900. (Elektrochemische Ztschr. Jahrg. 7, pp. 238–241; 258–262; Jahrg. 8, pp. 11–16; 36–40. *Berlin*, 1901.)

Haber (F.) Die Elektrochemie auf der Pariser Weltausstellung. (Ztschr. f. angewandte Chemie. Jahrg. 14, pp. 184–192. *Berlin*, 1901.)

Borns (H.) Die Elektrochemie im Jahre 1901. (Chemische Industrie. Jahrg. 25, pp. 252–255; 287–293; 309–315; 351–357; 377–384. *Berlin*, 1902.)

Periodicals.

Deutsche elektrochemische Gesellschaft. Zeitschrift für Elektrochemie. . . . hrsg. von W. Borchers. Jahrg. 1–3, 5–date. *Halle a S.*, 1895–1900. 4°.

v. 1 has title: Zeitschrift für Elektrotechik und Elektrochemie. Current.

Elektrochemische Zeitschrift. Organ für das Gesammtgebiet der Elektrochemie, Elektrometallurgie, für Batterien- und Akkumulatorenbau, Galvanoplastik und Galvanostegie. Redakteur: A. Neuburger. v. 1–date. *Berlin*, 1894–date. 4°. N. C.

Current.

Jahrbuch der Elektrochemie. Berichte über die Fortschritte des Jahres . . . hrsg. von W. Nernst und W. Borchers. Jahgr. 1–7 (1894–1900). *Halle a. S.*, 1895–1900. 8°.

Jahrg. 1-2 have sub-title: im wissenschaftlichen Theile bearbeitet von W. Nernst; im technishen Theile bearbeitet von W. Borchers.

Kalender für Elektrochemiker sowie technische Chemiker und Physiker für das Jahr 1898–01. Hrsg. von A. Newburger, mit einer Beilage. Jahrgang 2–6 (1898–1902.) *Berlin* [1897–1902].

General Works.

Davy (H.) Elektrochemische Untersuchungen (1807). Hrsg. von W. Ostwald. *Leipzig: W. Engelmann*, 1893. 92 pp., 1 pl. 12°. (Ostwald's Klassiker. no. 45.)

Singer (G. J.) Elements of electricity and electro-chemistry. *London*, 1814. 8°.

Becquerel (A. C.) Eléments d'Électrochimie, appliquée aux Science naturelles et aux Arts. *Paris*, 1843. 8vo.

Brandely (A.) Die Electrochemie, aus dem französischen bearbeitet von F. Harzer. *Weimar*, 1849. 12mo.

Becquerel (H.) Electro-chimie. *Paris*, 1882. 8°. (Encycl. chim. [v. 2]).

According to numbering on t.-p., this is T. 1, 2. fasc. Text.

Cohen (E. J.) *Het bepalen van overgangspunten langs electrischen weg en de electromotorische kracht bij scheikundige omzetting . . . 4 p. l., 100 pp., 3 l., 2 diagr., 1 pl. *Amsterdam: Delsman & Nolthenius*, 1893. 8°.

Smith (E. F.) Electro-chemical analysis. 2 ed. . . . *Philadelphia*, 1894. 16°.

Jahn (H.) Grundriss der Elektrochemie. x, 311 pp. *Wien: A. Hoelder*, 1895. 8°.

Ahrens (F. B.) Handbuch der Electrochemie. viii, 540 pp., ill. *Stuttgart: F. Enke*, 1896. 8°.

Le Blanc (M.) Lehrbuch der Elektrochemie. viii, 226 pp. ill. *Leipzig: O. Leiner*, 1896. 8°.

Manuel de l'électro-chimiste. *Paris: E. Bernard & Cie.*, 1896. 160 pp. 12°. (Petite encyclopédie électro-mécanique. no. 11.)

Ostwald (W.) Elektrochemie; ihre Geschichte und Lehre. *Leipzig*, 1896. 8°.

Bucherer (Alfred H.) Grundzüge einer thermodynamischen Theorie elektrochemischer Kräfte. 3 p. l., 144 pp., 1 l. *Freiberg: Cras & Gerlach*, 1897. 8°.

Digitized by Google

Electro-chemistry, cont'd.

Luepke (R.) The elements of electro-chemistry treated experimentally. Translated from the 2. ed. by M. M. Pattison Muir. *London: H. Grevel & Co.*, 1897. xv, 223 pp. 8°.

Minet (A.) Les fours électriques et leurs applications. *Paris: Masson & Cie.* [1897?] 178 pp., 1. l. 12°. (Encyclopédie scientifique des aide-mémoire.)

Moissan (H.) Le four électrique. vi, 1 l., 385 pp. *Paris: G. Steinheil*, 1897. 8°.

Peters (F.) Angewandte Elektrochemie. Bd. 1–3. *Wien: A. Hartleben*, 1897–98. 12°. (Elektro-technische Bibliothek. Bd. 47–50.)

Becker (H.) Manuel d'électro-chimie et d'électro-metallurgie; applications électro-chimiques et électro-thermiques . . . *Paris: J. Fritsch*, 1898. iii-viii, 521 pp. 12°.

Haber (F.) Grundriss der technischen Elektrochemie auf theoretischer Grundlage. *München: R. Oldenbourg*, 1898. xii, 573 pp. 8°.

Loeb (W.) Leitfaden der praktischen Elektrochemie. *Leipzig: Veit & Co.*, 1899. viii, 244 pp. 8°.

Luepke (Dr. R.) Grundzüge der Elektrochemie auf experimenteller Basis . . . *Berlin: J. Springer*, 1899. xii, 286 pp. 3. ed. 8°.

Arrhenius (S.) Lehrbuch der Elektrochemie . . . aus dem Schwedischen übersetzt von H. Euler. *Leipzig: Quandt & Handel*, 1901. 2 p. l., vii-viii, 305 pp. 8°.

Schule (Die) des Elektrochemikers. Darstellung der Grundsätze. Hilfsmittel, und Arbeitsverfahren der Elektrochemie. Herausgegeben in Verein mit W. Sander und Stapelfeldt [and others], von A. Holzt. *Leipzig: M. Schäfer*, 1901. viii, 478 pp. 8°.

Issued in 12 parts.

Education.

Foerster (F.) Welches ist zweckmässig die Rolle der Elektrochemie im chemischen Hochschulunterricht? (Ztschr. f. Elektrochemie. Jahrg. 6, pp. 453–457. *Halle-a-S.*, 1900.)

Haber (F.) Die elektrochemischen Einrichtungen des Chemisch-Technischen Instituts der Technischen Hochschule Karlsruhe i. B. (Ztschr. f. angewandte Chemie. Jahrg. 1900, pp. 755–759. *Berlin*, 1900.)

Lorenz (Richard). Über die Ausbildung des Elektrochemikers. (Ztsch. f. Elektrochemie. Jahrg. 7, pp. 201–206. *Halle a. S.*, 1900.)

Cannizzaro (Stanislao). Sull' insegnamento dell' elettrochimica. (R. accad. d. Lincei. Rendic. classe di sci. fis. ser. 5, v. 10, pt. 2, pp. 163–168. *Roma*, 1901.)

Foerster (F.) Nochmals die Stellung der Elektrochemie im Unterricht der technischen Hochschulen. (Ztschr. f. Elektrochemie. Jahrg. 7, pp. 461–464. *Halle a S.*, 1901.)

Richards (Joseph W.) A university course in electro-chemistry. (Transac. Amer. Electrochem. Soc. v. 1, pp. 41–46. *Philadelphia*, 1902.)

Essays.

Martens ( ). Réflexions sur la théorie électro-chimique de l'affinité et la composition moléculaire des corps. 15 pp. (In: Nouveaux Mémoires de l'Académie royale . . . de Bruxelles. *Bruxelles*, 1837. 4°. t. 10.)

Becquerel (A. C.) Recherches sur les causes qui dégagent de l'électricité dans les végétaux et sur les courants végéto-terrestres. (In: Inst. Francais. Acad. scien. mém. v. 23. pp. 35–66. v. 23. 1853.)

—— Nouveau mémoire sur la coloration électrochimique et le dépôt de peroxyde de fer sur des lames de fer et de cuivre;—Mém. sur la décomposition électro-chimique des composés insolubles. (In: Paris Inst. Acad. d. scien. v. 32. 1864.)

—— 1er mémoire sur les effets chimiques résultant de l'action colorifiques des décharges électriques. (In: Inst. Acad. d. scien. mém. v. 38. 1873.)

—— Mémoire sur la causes des effets électriques produits au contact des métaux inoxydables et autres corps avec différents liquides;—sur l'origine céleste de l'électricité atmospherique;—sur l'influence de la pression dans les phénomènes d'endosmose et d'exosmose, etc.;—Recherches sur la cause des phénomènes lumineux de l'atmosphère, [etc.];—Mém. sur l'emploi des forces électro chimiques et électro-capillaires pour la formation des amalgames cristallisés, etc. (In: Inst. Fr. Acad. scien. mém. v. 38. 1873.)

—— 1er mémoire sur le mode d'intervention de l'eau et les forces électro-motrices dans les actions chimiques produites pendant le mélange des dissolutions salines [etc.] (In: Inst. Acad. scien. mém. v. 40. no. 3. 1876.)

—— Mémoire sur la mesure des affinités. en prenant pour bases les forces électro-motrices;—Nouvelles recherches sur les réductions métalliques par les actions électro-capillaires;—Mém. sur les forces électro-motrices produites au contact de deux liquides séparés par des diaphragmes capillaires;—sur le transport de certains sels par les décharges électriques;—sur les actions électro-capillaires, et l'action de différents liquides sur la peau. (In: Inst. Franc. Acad. scien. mém. v. 41, 1879.) chart.

Squier (G. O.) Electro-chemical effects due to magnetization. [*Baltimore*,] 1893. 8°.

Häussermann ([K.]) Die Elektricität im Dienste der chemischen Industrie. *Stuttgart: K. Wittwer* [1895]. 16 pp. 8°.

Hemptinne (A. de). Sur l'action chimique des effluves électriques et des rayons de Röntgen. 36 pp. (In: Académie royale . . . de Belgique Mémoires couronnés et autres mémoires. *Bruxelles*, 1896–98. 8°. t. 55.)

Archibald (E. H.) On the calculation of the conductivity of aqueous solutions containing sodium chloride and potassium sulphate. (Proc. & Transac. Roy. Soc. of Canada. *Ottawa*, 1897. 8°. ser. 2, v. 3, Transac. Sect. 3, pp. 69–77.)

Hemptinne (A. de). Action des vibrations életriques sur quelques substances. 28 pp. (In: Académie royale . . . de Belgique. Mémoires couronnés et autres mémoires. *Bruxelles*, 1896–98. 8°. t. 55.)

Oettel (F.) Elektrochemische Übungsaufgaben. Für das Praktikum sowie zum Selbstunterricht. viii, 53 pp., ill. *Halle a. S: W. Knapp*, 1897. 8°.

Richards (Theodore William). On the temperature coefficient of the potential of the calomel electrode, with several different supernatant electrolytes. (Contributions from the chemical laboratory of Harvard College.) *Illus.* (Amer. acad. of arts and sciences. Proc. v. 33, pp. 1–20. *Boston*, 1897.)

Digitized by Google

Electro-chemistry, Essays, cont'd.

Foerster (F.) Sur les essais de transformation de l'énergie chimique en énergie électrique. (Moniteur scientif-Quesneville. *Paris*, 1898. 4°. (v. 52.) sér. 4, v. 12, pp. 461–466.)

Gibson (John). Preliminary note on a characteristic of certain chemical reactions. [Increase of electrical conductivity.] (Proc. of Roy. Soc. of Edinburgh. *Edinburgh*, 1898. 8°. v. 22, pp. 33–37.)

Hittorf (Johann Wilhelm). Über das elektromotorische Verhalten des Chroms. (Kön. Preuss. Akad. d. Wissensch. Sitzungsb. 1898, pp. 193–212. *Berlin*, 1898.)

Krüger (M.) Die Erfolge der organischen Elektrochemie. (Elektrochemische Zeitschr. Jahrg. 5, pp. 1–6, 31–39, 52–58, 72–76, 185–190, 240–246; Jahrg. 6, pp. 29–32. *Berlin*, 1888.)

Mewes (Rudolf). Beiträge zur chemischen, insbesondere zur elektrochemischen Theorie. (Elektrochemische Ztschr. *Berlin*, 1888–99. Jahrg. 4, pp. 121–124, 167–173; Jahrg. 5, pp. 217–223.)

Patterson (Geo. W.), *and* **Guthe** (Karl E.) A new determination of the electro-chemical equivalent of silver. 1 pl. (Physical Rev. *New York*, 1898. 8°. v. 7, pp. 257–282.)

Richards (Theodore William), *and* **Lowis** (Gilbert Newton). Some electrochemical and thermochemical relations of zinc and cadmium amalgams. (Contributions from the chemical laboratory of Harvard College.) (Amer. acad. of arts and sciences, v. 34, pp. 85–99. *Boston*, 1898.)

Smith (Edgar F.) The electric current in organic chemistry. (Science. *Lancaster, Pa.*, 1898. 8°. n. s., v. 8, pp. 413–423.)

Berthelot ( ). Actions chimiques exercées par l'effluve électrique sur les composés renfermant du carbone. (Annales de chimie et de physique. *Paris*, 1899. 8°. sér. 7, v. 16, pp. 5–31.)

Dennhardt (Rudolf). Ueber Beziehungen zwischen Fluidität und elektrolytischer Leitfähigkeit von Salzlösungen, sowie über die Leitfähigkeit von Oelsäure und deren Alkalisalzen in Wasser bez. Alkoholen bei verschiedenen Temperaturen. 1 pl. (Annalen d. Physik u. Chemie. *Leipzig*, 1899. 8°. n. s., v. 67, pp. 325-344.)

Meyer (Stefan). Magnetisirungszahlen anorganischer Verbindungen. *Tables.* (Kais. Akad. d. Wissensch. Math.-naturwiss. Classe. Sitzungsb. v. 108, pt. 2a, pp. 861-898. *Wien*, 1899.)

Minet (Adolphe). L'électrochimie. (Bull. technique. Année 1, v. 1, pp. 19–51. *Paris*, 1899.)

—— Réactions chimiques de l'étincelle et de l'effluve électriques. (Bull. tech. (organe de l'inst. du géne civil), année 1, v. 3, pp. 91–114; 185–202; 283–302. *Paris*, 1899.)

Norden (K.) *Ueber den Vorgang an der Aluminium Anode. Ein Beitrag zur elektrochemischen Umformung von Wechseltrom in Gleichstrom. [*Berlin.*] [*Halle a. S.: W. Knapp*, 1899.] 2 p. l., 80 pp., 2 l. 8°.

Tommasi (M. D.) Sur la loi de proportionnalité de la force électromotrice de décomposition. (Bull. technique. année 1, v. 1, pp. 153–156. *Paris*, 1899.)

Berthelot ( ). Sur les combinaisons du sulfure de carbone avec l'hydrogène et l'azote, sous l'influence de l'effluve électrique. (Annales de chimie & de physique. sér. 7, v. 19, pp. 145–150. *Paris*, 1900.)

Dony-Hénault (Octave). Sur la synthese electro-chimique des composés organiques. (Bull. de l'assoc. belge d. chimistes. année 14, pp. 179-202. *Bruxelles*, 1900.)

Haber (F.) Graphische Thermodynamik elektrochemischer Prozesse. (Zur Erinnerung an Hanns Luggin.) Zur Physikal. Ztschr. Jahrg. 1, pp. 361–371. *Leipzig*, 1900.)

Kendrick (Arthur). Die Überführungszahl von Schwefelsäuregemischen aus Messungen am Blei-Akkumulator. (Ztsch. f. Elektrochemie. Jahrg. 7, pp. 52–56. *Halle a. S.*, 1900.)

Leduc (A.) L'équivalent électrochimique de l'argent, du cuivre et de l'eau. (Congrès internat. de physique. 1900. Rapports. v. 2, pp. 440–459. *Paris*, 1900.)

Lincoln (Azariah Thomas). The electrical conductivity of non-aqueous solutions. 7 *tables.* (Wisconsin acad. of sci., arts and letters. Trans. v. 12, pp. 395–453. *Madison*, 1900.)

Bibliographical references in the foot-notes.

Pfanhauser (W.) *Ueber das elektrochemische Verhalten des Nickelammonsulfates. *Giessen*, 1900. 2 p. l., 65 pp., il. 4°.

Silbermann (Felix). *Über die elektrochemische Reduktion aromatischer Nitrokörper in saurer Lösung . . . *Giessen: O. Kindt*, 1900. 54 pp., il. 8°.

Berthelot ( ) Sur les conditions de mise en activité chimique de l'électricité silencieuse. (Annales de chimie et de physique. sér. 7, v. 22, pp. 445–457. *Paris*, 1901.)

Crocker (Francis B.) Electrochemistry and electrometallurgy. (School of Mines Quar. v. 22, pp. 119–139. *New York*, 1901.)

Houllevigue (L.) L'electro-chimie. (La rev. de Paris. 1901, v. 4, pp. 605–626. *Paris*, 1901.)

Jones (Harry C.) Selected chapters in electrochemistry. (Electr. Rev. v. 39, pp. 65–68; 93–97; 121–124; 150–152; 182–185; 209–213; 273-277; 303–307; 339–342; 372–376; 402–405. *New York*, 1901.)

Legrand (Emmanuel). Conductibilité électrique de certains sels et du sodium dissous dans l'ammoniaque liquéfiée. (L'éclairge électr. v. 26, pp. 88–98. *Paris*, 1901.)

Nernst (W.) Ueber die Bedeutung elektrischer Methoden und Theorien für die Chemie. (Naturwissenchaftliche Rundschau. Jahrg. 16, pp. 609–612; 625–628. *Braunschweig*, 1901.)

Muelier (Wilhelm). *Hydrolyse des Natriumphenats beim Siedepunkt seiner wässrigen Lösungen . . . [*Giessen.*] *Weimar: R. Wagner Sohn*, 1901. 69 pp. 8°.

Nernst (W.) Ueber die Bedeutung elektrischer Methoden u. Theorieen für die Chemie . . . *Gottingen: Vandenhoeck & Ruprecht*, 1901. 26 pp. 8°.

Digitized by Google

Electro-chemistry, cont'd.

—— ——(Archiv d. Mathematik u. Physik. v. 2, pp, 171–184. *Leipsig*, 1901.)

—— —— (Physikal. Ztschr. Jahrg. 3, pp. 63–70. *Leipsig*, 1901.)

Reed (C. J.) Electrochemical action. (Jour. Franklin Inst. v. 151, pp. 369–393; 401–413. v. 152, pp. 46–58. *Philadelphia*, 1901.)

Brochet (André). L'industrie electrochimique. (Rev. scientif. sér. 4, v. 17, pp. 321–331. *Paris*, 1902.)

Locks (James). Electro-affinity as a basis for the systematization of inorganic compounds. (Amer. Chem. Jour. v. 27, pp. 105–117. *Baltimore*, 1902.

Rio Joan (Francisco del). Verificación de amperímetros por el método electroquímico. (Mem. de ingen. del ejército. año 57, ser. 4, v. 19, pp. 14–19; 33–42; 65–72; 100–106, 129–136; 161–167; 193–199. *Madrid*, 1902.)

Laboratories.

Notice sur le laboratoire de la Compagnie Electro Metallurgique des procédés Gin et Leleux. (Cong. internat. de l'acétylène. 3rd. 1900. Rapports, etc. pp. 131–134. *Paris*, 1901.)

R. ( ) Das elektrochemische Laboratorium an der Universität von Pennsylvania. (Elektrochem. Ztschr. Jahrg. 8, pp. 193–197. *Berlin*, 1901.)

Digitized by Google

PRINCIPAL ACCESSIONS IN NOVEMBER.

General Works.

Brockhaus (F. A.) Brockhaus' Konversations-Lexicon. Bd. 10. *Leipzig*, 1902. 4°.

Copinger (W. A.) Supplement to Hain's Repertorium bibliographicum. part 2, vol. 2. *London*, 1902. 8°.

Kroeger (A. B.) Guide to the study and use of reference books. *Boston*, 1902. 8°.

New (The) international encyclopædia. v. 3. *New York*, 1902. 4°.

Biography and Genealogy.

Alphabetical, by subjects.

Marsh (L. B.), *and* **Barker** (Mrs. H. M. K. F.) Bronsdon and Box families. *Lynn*, 1902. 8°.

Alderson (B.) Andrew Carnegie. *New York*, 1902. 8°.

Morrison (G. A.), *jr.* Clarke genealogies. *New York*, 1902. 4°.

Crispin (*Rev.* W. F.) A biographical and historical sketch of Captain William Crispin. *Akron, O.*, 1901. 8°.

Perry (C. B.) Charles D'Wolf of Guadaloupe, his ancestors and descendants. *New York*, 1902. 8°.

Smith (T.) Euclid. *New York*, 1902. 12°.
(The world's epoch-makers.)

Gunby (A. A.) Colonel John Gunby. *Cincinnati*, 1902. 8°.

Hammond (F. S.) History and genealogies of the Hammond families in America. v. 1. *Oneida, N. Y.*, 1902. 8°.

Lancaster (H. F.) The Lancaster family. *Columbia City, Ind.*, 1902. 8°.

Halstead (M.) William McKinley. Oversat fra Engelsk af P. O. Strömme. *Chicago*, 1901. 8°.

Carey (E. L.) William Morris. *New York*, 1902. 8°.

Clark (W.) Pascal and the Port Royalists. *New York*, 1902. 12°.
(The world's epoch-makers.)

Recke (E. C. C. von der), *geb. v. Medem.* Elisa von der Recke. Hrsg. von P. Rachel. *Leipzig*, 1902. 2 v. 8°.

Channing (*Rev.* W. E.) Thoreau. New ed. *Boston*, 1902. 8°.

Train (G. F.) My life. *New York*, 1902. 12°.

Webster (D.) The letters of D. Webster. *New York*, 1902. 8°.

Lasell (T. S.) Whiting genealogy. *Boston, Mass.*, 1902. 8°.

America.

Gale (E. O.) Reminiscences of early Chicago and vicinity. *Chicago*, 1902. 8°.

Lotto (F.) Fayette County, her history and her people. *Schulenburg, Texas*, 1902. 8°.

MacDonald (W.) The government of Maine. *New York*, 1902. 12°.
(Handbooks of Amer. government.)

Martzolff (C. L.) History of Perry County, Ohio. *New Lexington, O.*, 1902. 8°.

Moore (C. B.) Certain aboriginal remains of the northwest Florida coast. Pt. 2. *Philadelphia*, 1902. f°.
Gift of the author.

Richman (I. B.) Rhode Island. *New York*, 1902. 2 v. 8°.

Strait (N. A.) Alphabetical list of battles, 1754–1900. *Washington, D. C.*, 1902. 8°.

Trueman (H.) The Chignecto Isthmus. *Toronto*, 1902. 12°.

Van Tyne (C. H.) The loyalists in the American revolution. *New York*, 1902. 12°.

Wilson (R. R.) New York, old and new. *New York*, 1902. 2 v. 8°.

Wilson (W.) A history of the American people. 5 v. *New York*, 1902. 8°.

Winchester (P.) Around the throne. Sketches of Washington society. *Baltimore*, 1902. 12°.

Europe.

Bayne (S. G.) On an Irish jaunting-car through Donegal and Connemara. *New York*, 1902. 8°.

Butler (H. C.) The story of Athens. *New York*, 1902. 8°.

Africa.

Peters (K.) In Goldland des Altertums. *München*, 1902. 8°.

Schiel (A.) 23 Jahre Sturm und Sonnenschein in Südafrika. *Leipzig*, 1902. 8°.

Schoenfeld (E. D.) Aus den Staaten der Barbaresken. *Berlin*, 1902. 4°.

Asia.

Das (S. C.) Journey to Lhasa and Central Tibet. *London*, 1902. 8°.

Goodspeed (G. S.) A history of the Babylonians and Assyrians. *New York*, 1902. 12°.
(Historical series for Bible students, v. 6.)
Gift of J. H. Schiff.

Jews.

Dieckmann (C.) Das Gilgamis. Epos in einer Bedeutung für Bibel und Babel. *Leipzig*, 1902. 8°.
Gift of Jacob H. Schiff.

Digitized by Google

Hapgood (H.) The spirit of the Ghetto. *New York*, 1902. 12°.
Gift of J. H. Schiff.

Art.

Bode (W.) Kunst und Kunstgewerbe am Ende des neun-zehnten Jahrhunderts. *Berlin*, 1902. 12°.

Eddy (A. J.) Delight the soul of art. *New York*, 1902. 12°.

Holm (E.) Das Objectiv im Dienste der Photographie. *Berlin*, 1902. 8°.

Joseph (D.) Geschichte der Baukunst. Bd. 1–2. *Berlin*, 1902. 4°.

Schmidt (K. E.) Sevilla. *Leipzig*, 1902. 8°.
(Berühmte Kunststätten, no. 15.)

Schubring (P.) Pisa. *Leipzig*, 1902. 8°.
(Beruhmte Kunststätten, no. 16.)

Music.

Elson (A.) Orchestral instruments and their use. *Boston*, 1903. 12°.
(Music lovers' series.)

Fuller Maitland (J. A.) English music in the XIXth century. *London*, 1902. 12°.
(Music in the XIXth century, v. 1.)

Goepp (P. H.) Symphonies and their meaning. Second series. *Philadelphia*, 1902. 12°.

Sport.

Gordon (G. A., *lord*). Sporting reminiscences. *London*, 1902. 8°.
Gift of John L. Cadwalader.

Ronaldshay (*earl*), L. J. L. **Dundas**. Sport and politics under an Eastern sky. *Edinburgh*, 1902. 8°.
Gift of John L. Cadwalader.

Thompson (W. M.), *and* **Lawson** (T. W.) The Lawson history of the America's cup. *Boston*, 1902. 8°.
Gift of Thomas W. Lawson.

American and English Literature.

Argyle (H.) As I saw it. *San Francisco*, 1902. 12°.
Gift of Pub. Weekly.

B (H.) Lambkin's remains. *New York*, 1900. 16°.

Bedlow (H.) War and worship. *New York*, 1902. 12°.
Gift of Truth Seeker Co.

Binkley (C.) Sonnets and songs for a house of days. *San Francisco*, 1902. 12°.

Canfield (W. W.) The legends of the Iroquois. *New York*, 1902. 8°.

Carleton (W.) Songs of two centuries. *New York*, 1902. 8°.

Chambers's encyclopædia of English literature. New edition by D. Patrick. v. 2. *Philadelphia*, 1902. 4°.

Connor (R.), *pseud. of Rev. C. W. Gordon*. The sky pilot: a tale of the foothills. *Chicago*, 1901. 12°.

Every day in the year. *New York*, 1902. 8°.

Fiske (J.) Essays historical and critical. 2 v. *New York*, 1902. 8°.

Golden numbers: a book of verse for youth. *New York*, 1902. 12°.

Guyse (E.) A movable quartette. *New York*, 1901. 8°.
Gift of Publishers' Weekly.

Hoogstraat (M. E.) For bush or bonnet? *New York*, 1902. 8°.

Hubbard (S. A.) Catchwords of cheer. *Chicago*, 1902. 16°.
Gift of Publishers' Weekly.

Kulóskap, the master, and other Algonkin poems. *New York*, 1902. 12°.

Lowell (James Russell). Anti-slavery papers. *Boston*, 1902. 2 v. 8°.

Morris (W.) The doom of King Acrisius. *New York*, 1902. sq. 8°.

Morten (W. H.) Haps and mishaps of Jack Hazelton. *New York*, 1902. 8°.
Gift of Publishers' Weekly.

Pinero (A. W.) Iris. *New York*, 1902. 12°.

Primrose diplomacy. *New York*, 1902. 12°.
Gift of Publishers' Weekly.

Scudder (V. D.) Introduction to the study of English literature. *New York*, 1901. 12°.

Sears (L.) American literature in the colonial and national periods. *Boston*, 1902. 8°.

Smith (W. H.), *and others*. The new Hamlet, intermixed and interwoven with a revised version of Romeo and Juliet. By W. H. Smith and the Smith family, farmers. *Chicago*, 1902.
Gift of Publishers' Weekly.

Stoddard (J. H.) Recollections of a player. *New York*, 1902. 8°.

Taylor (B. L.) Line-o'-type lyrics. *Evanston*, 1902. 16°.
Gift of Publishers' Weekly.

Treasury (A) of humorous poetry. Edited by by F. L. Knowles. *Boston*, 1902. 12°.

Watson (H. B. M.) Chloris of the island. *New York*, 1900. 12°.

Foreign Literature.

Annunzio (G. d'.) Francesca da Rimini. Translated by A. Symons. *New York*, 1902. 12°.

Euripides. Euripides' Alkestis. (Standard plays for amateur performance in girls' schools.) *London*, 1902. 16°.

Hegedüs (S.), *jr*. Amerikai szinek. *Budapest*, 1902. 16°.
Gift of Mrs. F. N. Doubleday.

Sudermann (H.) The joy of living. *New York*, 1902. 12°.

Wright (J. H.) Masterpieces of Greek literature. *Boston*, 1902. 12°.

Mathematical and Physical Sciences.

Borletti (F.) Formole a tavole per il calcolo delle risvolte ad arco circolare. *Milano*, 1902. nar. 8°.

Meunier (S.) La géologie générale. *Paris*, 1903. 8°.
(Bibliothèque scientifique internationale, v. 98.)

Digitized by Google

Newcomb (S.) Astronomy for everybody. *New York*, 1902. 8°.
(Science for everybody.)

Smith (P. F.) Four-place logarithmic tables. *New York*, 1902. 8°.

Biological Sciences.

Elliott (J. W.) A plea for hardy plants. *New York*, 1902. sq. 4°.

Stone (W.), *and* **Cram** (W. E.) American animals. *New York*, 1902. 4°.
Gift of J. L. Cadwalader.

Philology.

Farmer (J. S.), *and* **Henley** (W. E.) Slang and its analogues. v. 6, pt. 1. *London*, 1902. 8°.

Weise (Oskar). Ästhetik der deutschen Sprache. *Leipzig*, 1903. 8°.

Sociology.

Des Cilleuls (A.) La population. *Paris*, 1902. 12°.
(Bibliothèque d'économie sociale.)

Kingsland (*Mrs.* F.) The book of weddings. *New York*, 1902. 8°.

Lassalle (Ferdinand). Discours et pamphlets; traduits de l'allemand par V. Dave & L. Remy. *Paris*, 1903. 12°. (Bibl. socialiste internat. v. 8.)

Potter (H. C.) The citizen in his relation to the industrial situation. *New York*, 1902. 8°.
(Yale lectures on the responsibilities of citizenship.)

Shall girls propose? and other papers on love and marriage, by a "Speculative Bachelor." *New York*, 1902. nar. 16°.
Gift of Publishers' Weekly.

Stewart (W. P.) Concrete identities. *New York*, cop. 1901. 12°.

Education.

Creamer (Frank). Talks to students on the art of study. *San Francisco*, 1902. 12°.

Economics.

Adams (B.) The New Empire. *New York*, 1902. 12°.

Adgie (W.) Modern book-keeping and accounts in three parts. pt. 3. *London*, 1902. 12°.

Cleveland (F. A.) Funds and their uses. *New York*, 1902. 8°.
(Appleton's business series.)

Ghent (W. J.) Our benevolent feudalism. *New York*, 1902. 12°.

Goodknight (A. L.) Modern association and railroading. *New York*, cop. 1901. 12°.

Schwarz (O.), *and* **Struts** (G.) Der Staatshaushalt und die Finanzen Preussens. Bd. 1, Lief. 4. *Berlin*, 1902. 4°.

Stechhan (O.) Whither are we drifting? *New York*, 1901. 8°.
Gift of Publishers' Weekly.

Zoepfl (G.) Nationalökonomie der technischen Betriebskraft. *Gena*, 1903. 8°.

Zueblin (C.) American municipal progress. *New York*, 1902. 12°.
(The citizen's library.)

Industries and Industrial Arts.

André (H.) Les dirigeables. *Paris*, 1902. 8°.

Carpenter (R. C.) Heating and ventilating buildings. A manual . . . *New York*, 1902. 8°.

De Vinne (T. L.) The practice of typography. [v. 3.] *New York*, 1902. 12°.

Ellwanger (G. H.) The pleasures of the table. *New York*, 1902. 8°.

Harper's cook book encyclopædia; arranged like a dictionary. *New York*, 1902. 8°.

Hill (J. McK.) Practical cooking and serving. *New York*, 1902. 8°.

Koller (T.) Cosmetics. *London*, 1902. 12°.

Monroe (W. S.) Steam heating and ventilation. *New York*, 1902. 8°.
(The Engineering Record series.)

Moreau (G.) Théorie des moteurs à gaz. *Paris*, 1902. 8°.

New York (State). *Universal Exposition Commission.* Report. *Brooklyn*, 1901. sq. 4°.
Gift of Publishers' Weekly.

Oppel (A.) Die Baumwolle. *Leipzig*, 1902. 4°.

Parr (G. D. A.) Electrical engineering testing. *London*, 1902. 8°.

Piesse ([G. W.] S[eptimus]). Chimie des parfums et fabrication des essences. *Paris*, 1903. 12°.
(Bib. des connaissances utiles.)

Reidl (M.) M. Reidl's Herrschafts-Küche. *Zürich*, 1902. 8°.

United States.—*Agriculture, Secretary of.* Report in relation to the forests, rivers and mountains of the Southern Appalachian region. *Washington*, 1902. f°.

Walker (F.) Aerial navigation. *New York*, 1902. 12°.

Naval Science.

Abbot (W. J.) American merchant ships and sailors. *New York*, 1902. 8°.

Paschen (C.) Italien: die Flotte. *Berlin*, 1902. 4°.
(Die Heere und Flotten der Gegenwart, v. 7.)

Vail (I. E.) Three years on the blockade: a naval experience. *New York*, 1902. 8°.

Philosophy.

Baldwin (J. M.) Dictionary of philosophy and psychology. v. 2. *New York*, 1902. 4°.

Jordan (David Starr). The philosophy of despair. *San Francisco*, 1902. 8°.

Jordan (W. G.) The power of truth. *New York*, 1902. 12°.

Portig (G.) Das Weltgesetz des kleinsten Kraftaufwandes in den Reichen der Natur. Bd. 3. *Stuttgart*, 1903. 8°.

Vorlaender (K.) Geschichte der Philosophie. *Leipzig*, 1903. 2 v. 12°.
(Philosophische Bibliothek. Bd. 105-106.)

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Religion.

Best (N. R.) The college man in doubt. *Philadelphia*, 1902. 12°.
Gift of Publishers' Weekly.

Criticism of the New Testament. *New York*, 1902. 8°.
(St. Margaret's lectures, 1902.)

Ehrlich (*Mrs.* B.) The light of our spirit. *Berlin, Wisc.*, 1901, 12°.
Gift of Publishers' Weekly.

McLeod (L. C.) A young man's problems. *Chicago*, 1902. 12°.
Gift of Publishers' Weekly.

Mallock (W. H.) Religion as a credible doctrine. *New York*, 1903. 8°.

Malone (J. S.) Guided and guarded. *New York*, 1901. 12°.
Gift of Publishers' Weekly.

O'Heyne (*Rev.* J.) The Irish Dominicans of the seventeenth century. *Dundalk*, 1902. 12°.

Oliver (*Rev.* G. F.) Our lay office-bearers. *Cincinnati*, 1901. 24°.
Gift of Publishers' Weekly.

Oliver (*Rev.* G. F.) Soul-winners secrets: a primary revival text-book for Christian workers. *Cincinnati*, 1902. 24°.
Gift of Publishers' Weekly.

Rogers (A. A.) A waiting race. *New York*, 1902. 8°.
Gift of Publishers' Weekly.

Seward (T. F.) How to get acquainted with God. *New York*, 1902. 16°.
Gift of Publishers' Weekly.

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